

10/018,962

=> s l1 sss full

FULL SEARCH INITIATED 13:14:29 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 320 TO ITERATE

100.0% PROCESSED 320 ITERATIONS 171 ANSWERS  
SEARCH TIME: 00.00.01

L3 171 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	165.35	167.66

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FILE COVERS 1907 - 22 Apr 2003 VOL 138 ISS 17  
FILE LAST UPDATED: 21 Apr 2003 (20030421/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 4 L3

=> d l4 1-4 bib abs hitstr

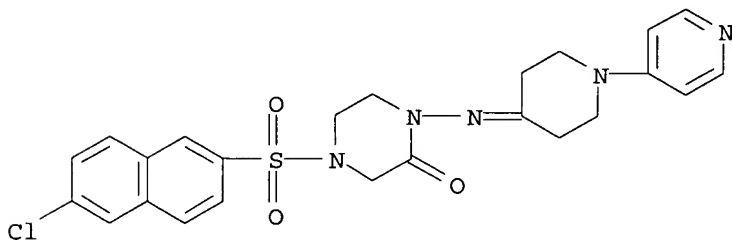
10/018,962

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:676764 CAPLUS  
DN 135:227017  
TI Process for preparation of hydrazine derivatives  
IN Mizufune, Hideya; Nakamura, Minoru; Yamamoto, Hiroaki; Miki, Shokyo  
PA Takeda Chemical Industries, Ltd., Japan  
SO PCT Int. Appl., 126 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

SAME CC

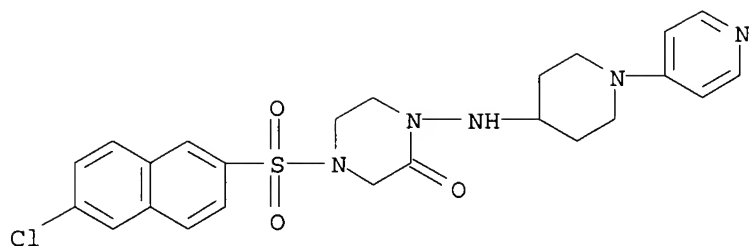
LATER

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001066541	A1	20010913	WO 2001-JP1750	20010307
	W: AE, AG, AL, AM, <del>AT, AU</del> , AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	JP 2001322991	A2	20011120	JP 2001-64660	20010308
PRAI	JP 2000-68670	A	20000308		
OS	CASREACT 135:227017; MARPAT 135:227017				
AB	This document discloses industrial processes for prepg. hydrazine derivs., e.g. R1R2NNHCHR3R4 [wherein R1, R2, R3 and R4 are each hydrogen, an optionally substituted hydrocarbon group, or the like] by reducing hydrazone derivs. with a solid amine-borane complex. These processes make it possible to prep. hydrazine derivs. useful as drugs, agricultural chems., foods, cosmetics, or chem. products, or intermediates thereof. Thus, 4-(6-chloronaphthalen-2-sulfonyl)-1-[1-(4-pyridyl)-4-piperidinylamino]-2-piperazinone was prepd. in 84% yield by redn. of the corresponding hydrazone deriv. by borane dimethylamine complex.				
IT	315485-97-3P 315486-01-2P 315494-83-8P 359763-33-0P				
	RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (process for prepn. of hydrazine derivs.)				
RN	315485-97-3 CAPLUS				
CN	Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinylidene]amino]- (9CI) (CA INDEX NAME)				

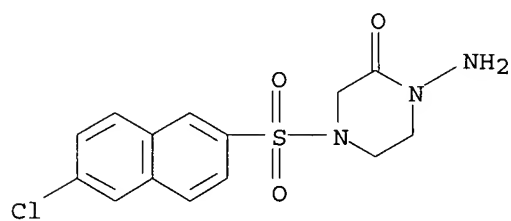


RN 315486-01-2 CAPLUS  
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

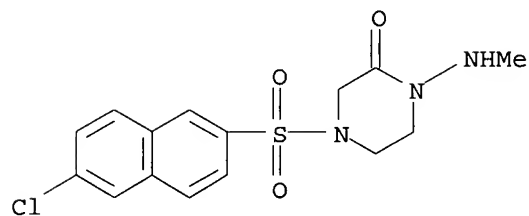
10/018,962



RN 315494-83-8 CAPLUS  
CN Piperazinone, 1-amino-4-[(6-chloro-2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)

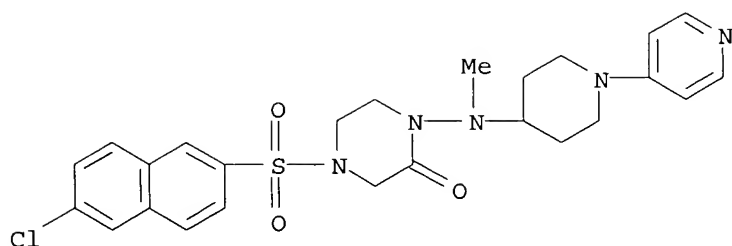


RN 359763-33-0 CAPLUS  
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-(methylamino)- (9CI) (CA INDEX NAME)



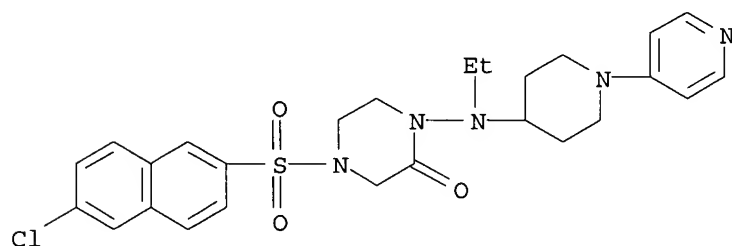
IT 315487-42-4P 315487-63-9P 315487-67-3P  
315488-31-4P 315489-14-6P  
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)  
(process for prepn. of hydrazine derivs.)  
RN 315487-42-4 CAPLUS  
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

10/018,962



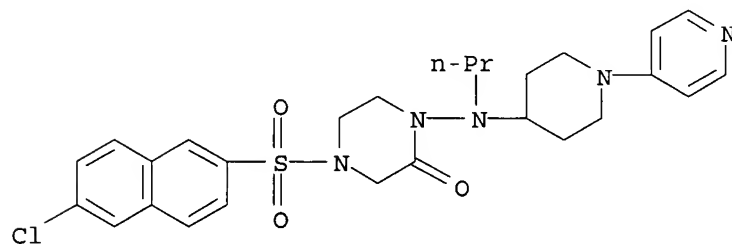
RN 315487-63-9 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[ethyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315487-67-3 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[propyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

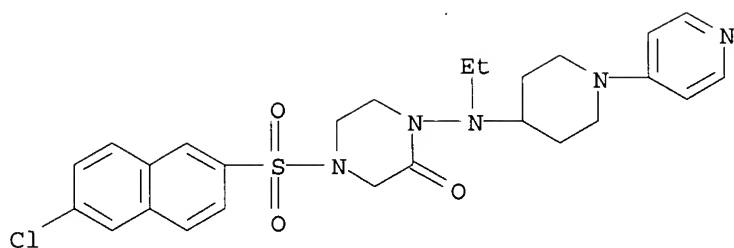


RN 315488-31-4 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[ethyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



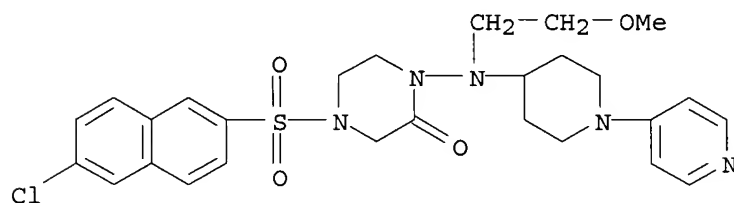
10/018,962



O HCl

RN 315489-14-6 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[(2-methoxyethyl)(1-(4-pyridinyl)-4-piperidinyl)amino]- (9CI) (CA INDEX NAME)



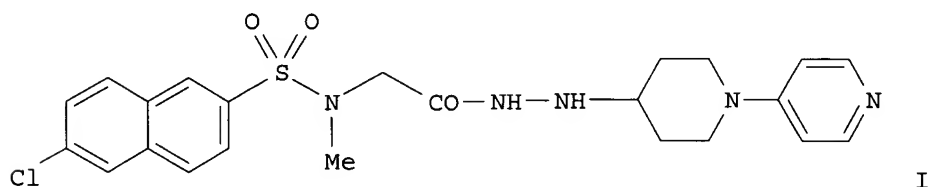
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/018,962

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:911242 CAPLUS  
DN 134:71607  
TI Preparation and effect of acylhydrazine derivatives as activated blood  
coagulation factor X inhibitors  
IN Itoh, Fumio; Hosono, Hiroshi; Kawamura, Masaki; Kubo, Keiji  
PA Takeda Chemical Industries, Ltd., Japan  
SO PCT Int. Appl., 202 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

APPS  
PCT

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000078747	A1	20001228	WO 2000-JP4034	20000621
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	EP 1188755	A1	20020320	EP 2000-940768	20000621
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	JP 2001278882	A2	20011010	JP 2000-192697	20000622
PRAI	JP 1999-176057	A	19990622		
	JP 1999-266280	A	19990920		
	JP 2000-17956	A	20000124		
	WO 2000-JP4034	W	20000621		
OS	MARPAT 134:71607				
GI					



AB Novel acylhydrazine derivs. exhibiting an inhibitory activity against activated blood coagulation factor X, which are compds. of general formula  $RSO_2NR_1X_1CDNR_2AX_2Z$  or salts thereof, [wherein R is an optionally substituted hydrocarbon group or an optionally substituted heterocyclic group; R1 and R2 are each hydrogen or optionally substituted hydrocarbyl, or alternatively R1 and R2 or the substituent of X1 and R2 may be united to form an optionally substituted ring; X1 and X2 are each free valency, optionally substituted alkylene, or optionally substituted imino; D is oxygen or sulfur; A is N(R3)Y or N:Y; R3 is hydrogen, optionally substituted hydrocarbyl, or acyl; Y is an optionally substituted chain hydrocarbon group or an optionally substituted cyclic group; and Z is (1) optionally substituted amino, (2) optionally substituted imidoyl, or (3) an optionally substituted nitrogenous heterocycle group] are prepd. Thus, the title compd. I was prepd.

IT 315485-97-3P 315486-01-2P 315486-05-6P

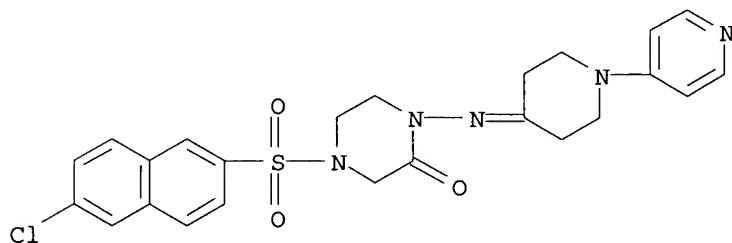
315486-09-0P 315486-27-2P 315486-31-8P  
 315486-41-0P 315486-53-4P 315487-28-6P  
 315487-55-9P 315487-63-9P 315487-91-3P  
 315487-95-7P 315488-04-1P 315488-08-5P  
 315488-19-8P 315488-43-8P 315488-61-0P  
 315489-68-0P 315489-72-6P 315489-80-6P  
 315490-36-9P 315490-40-5P 315490-50-7P  
 315490-80-3P 315491-09-9P 315491-14-6P  
 315491-18-0P 315491-22-6P 315491-45-3P  
 315491-57-7P 315491-83-9P 315495-89-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. and effect of acylhydrazine derivs. as activated blood coagulation factor X inhibitors)

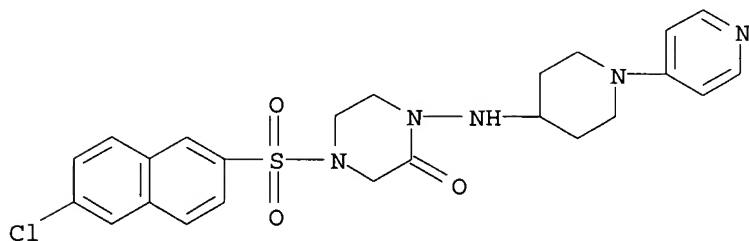
RN 315485-97-3 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinylidene]amino]- (9CI) (CA INDEX NAME)



RN 315486-01-2 CAPLUS

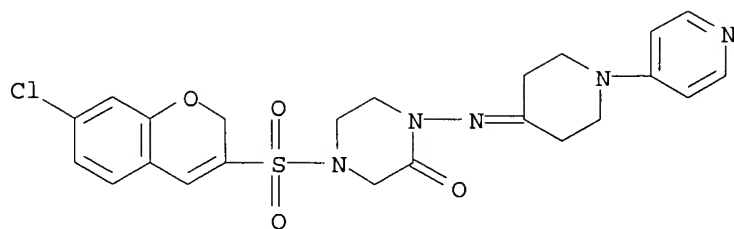
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315486-05-6 CAPLUS

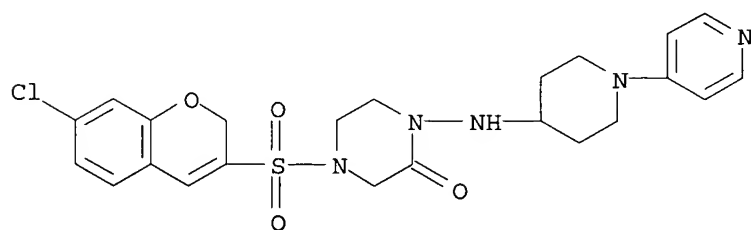
CN Piperazinone, 4-[(7-chloro-2H-1-benzopyran-3-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinylidene]amino]- (9CI) (CA INDEX NAME)

10/018,962



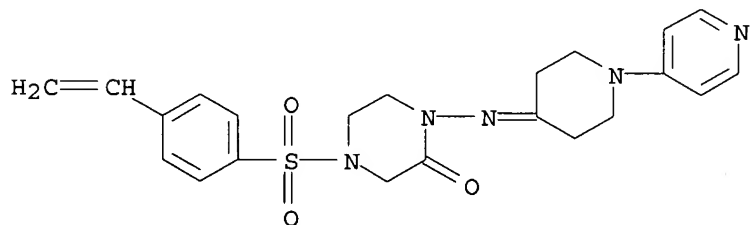
RN 315486-09-0 CAPLUS

CN Piperazinone, 4-[(7-chloro-2H-1-benzopyran-3-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



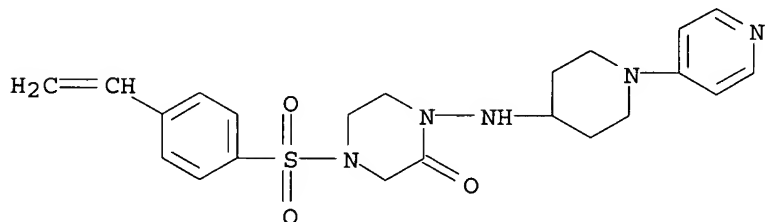
RN 315486-27-2 CAPLUS

CN Piperazinone, 4-[(4-ethenylphenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinylidene]amino]- (9CI) (CA INDEX NAME)



RN 315486-31-8 CAPLUS

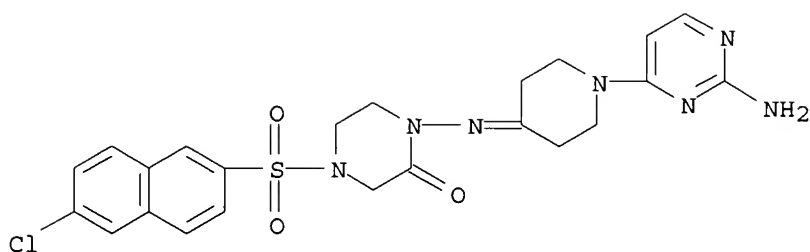
CN Piperazinone, 4-[(4-ethenylphenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinylidene]amino]- (9CI) (CA INDEX NAME)



RN 315486-41-0 CAPLUS

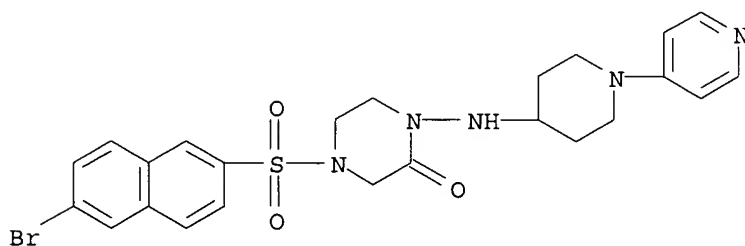
CN Piperazinone, 1-[[1-(2-amino-4-pyrimidinyl)-4-piperidinylidene]amino]-4-[(6-chloro-2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)

10/018,962



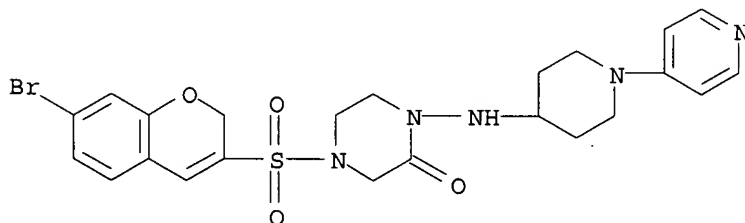
RN 315486-53-4 CAPLUS

CN Piperazinone, 4-[(6-bromo-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



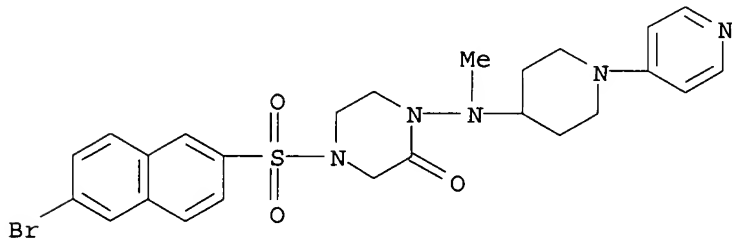
RN 315487-28-6 CAPLUS

CN Piperazinone, 4-[(7-bromo-2H-1-benzopyran-3-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315487-55-9 CAPLUS

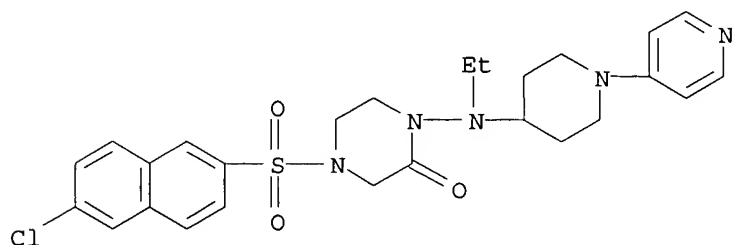
CN Piperazinone, 4-[(6-bromo-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315487-63-9 CAPLUS

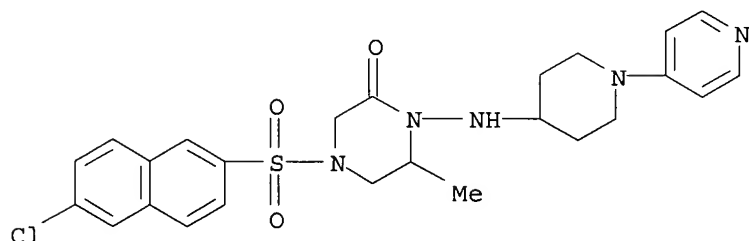
10/018,962

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[ethyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315487-91-3 CAPLUS

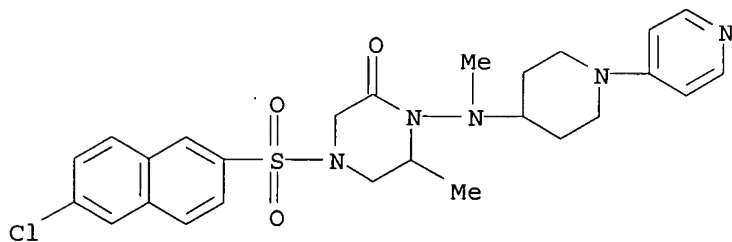
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-methyl-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

RN 315487-95-7 CAPLUS

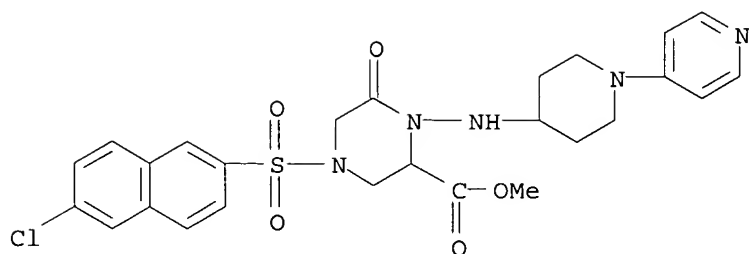
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-methyl-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315488-04-1 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, methyl ester, dihydrochloride (9CI) (CA INDEX NAME)

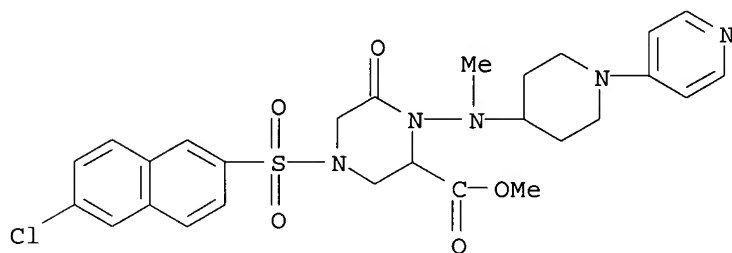
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○<sub>2</sub> HCl

RN 315488-08-5 CAPLUS

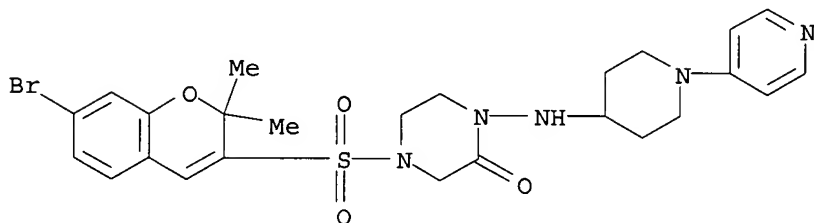
CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)



○ HCl

RN 315488-19-8 CAPLUS

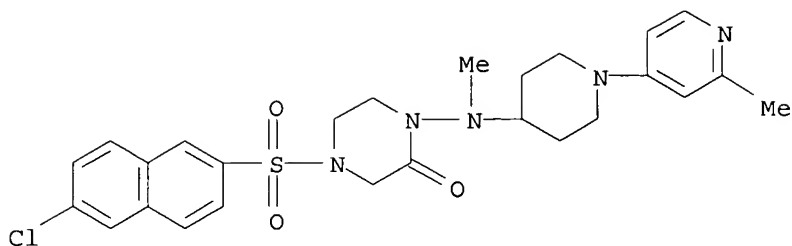
CN Piperazinone, 4-[(7-bromo-2,2-dimethyl-2H-1-benzopyran-3-yl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315488-43-8 CAPLUS

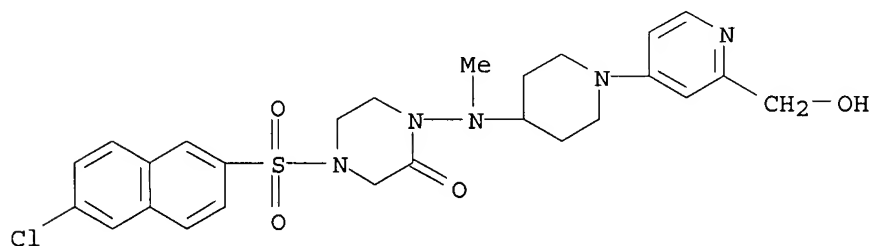
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

10/018,962



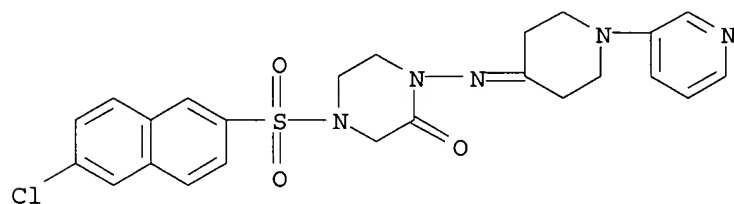
RN 315488-61-0 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(hydroxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)



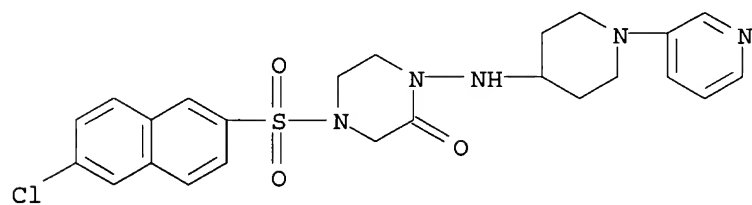
RN 315489-68-0 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(3-pyridinyl)-4-piperidinylidene]amino]- (9CI) (CA INDEX NAME)



RN 315489-72-6 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(3-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



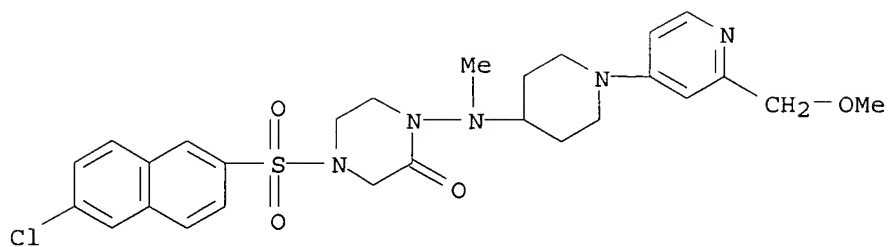
RN 315489-80-6 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(methoxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)



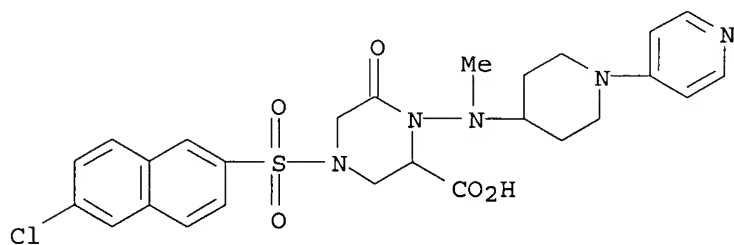
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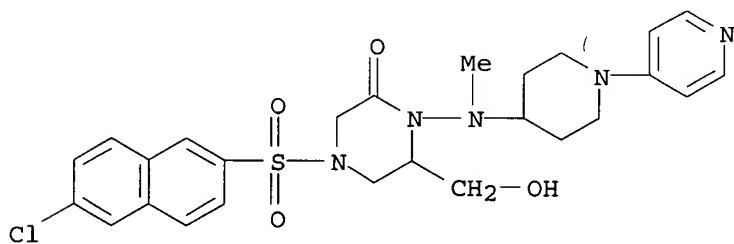
RN 315490-36-9 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo- (9CI) (CA INDEX NAME)



RN 315490-40-5 CAPLUS

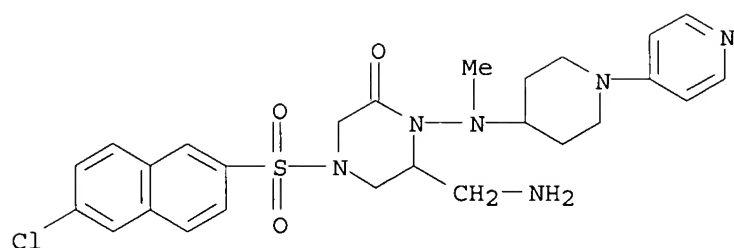
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-(hydroxymethyl)-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



⊖ HCl

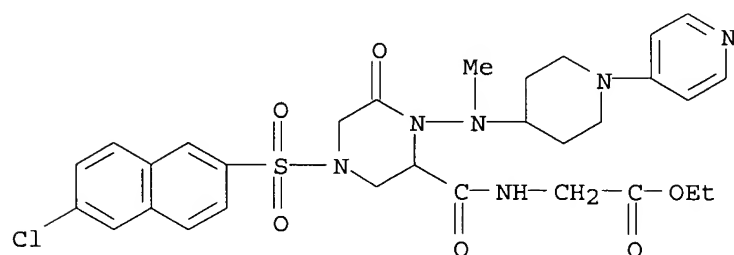
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CN Piperazinone, 6-(aminomethyl)-4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)

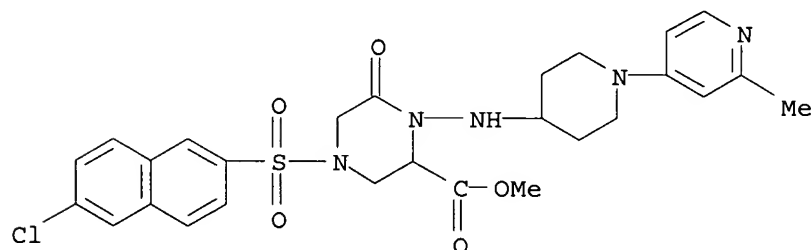


⊙2 HCl

RN 315490-80-3 CAPLUS  
 CN Glycine, N-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



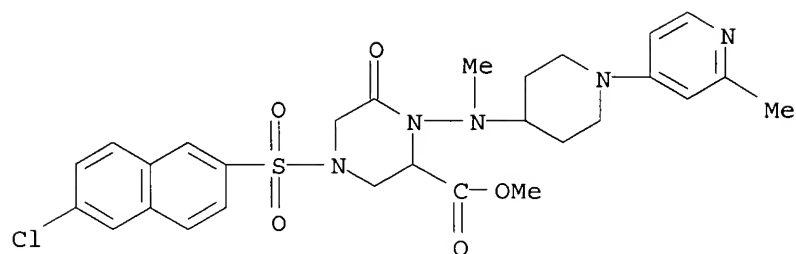
RN 315491-09-9 CAPLUS  
 CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester, dihydrochloride (9CI) (CA INDEX NAME)



○2 HCl

RN 315491-14-6 CAPLUS  
 CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

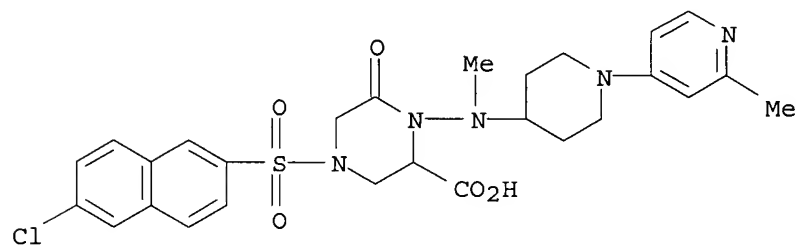
10/018,962



○ HCl

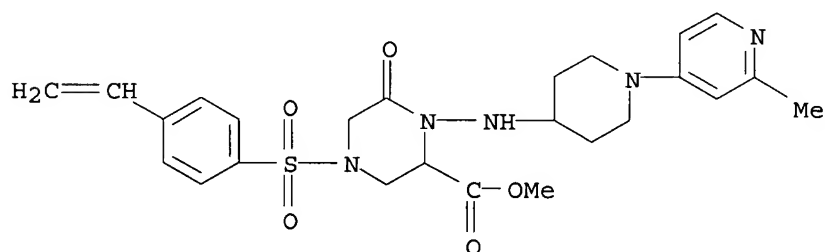
RN 315491-18-0 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo- (9CI) (CA INDEX NAME)



RN 315491-22-6 CAPLUS

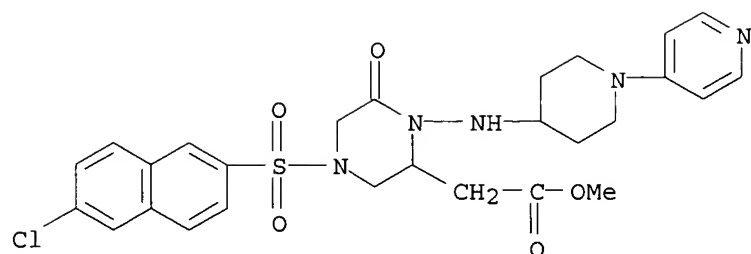
CN 2-Piperazinecarboxylic acid, 4-[(4-ethenylphenyl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



RN 315491-45-3 CAPLUS

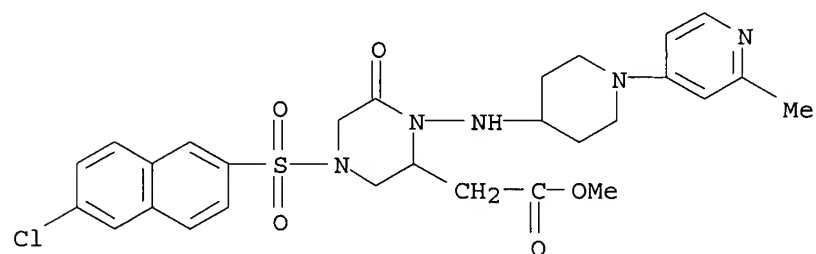
CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-oxo-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

10/018,962



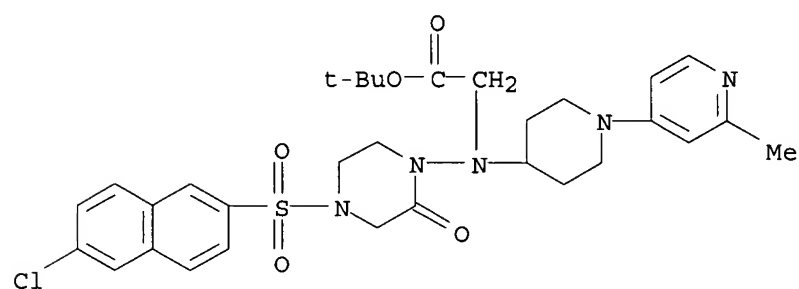
RN 315491-57-7 CAPLUS

CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



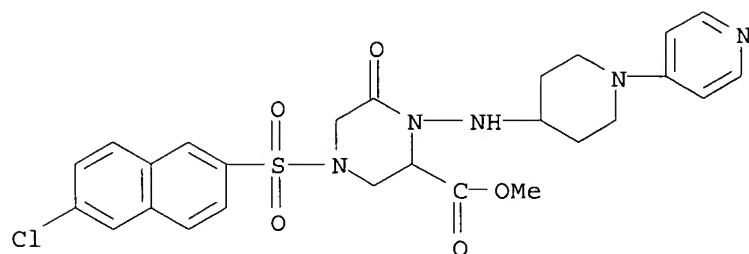
RN 315491-83-9 CAPLUS

CN Glycine, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-N-[1-(2-methyl-4-pyridinyl)-4-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 315495-89-7 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



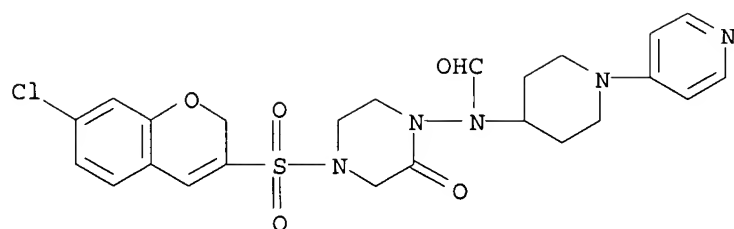
IT 315486-14-7P 315486-18-1P 315486-23-8P  
 315486-36-3P 315486-45-4P 315486-49-8P  
 315486-57-8P 315486-61-4P 315486-68-1P  
 315486-72-7P 315486-76-1P 315486-80-7P  
 315486-84-1P 315486-88-5P 315486-92-1P  
 315486-96-5P 315487-00-4P 315487-04-8P  
 315487-07-1P 315487-11-7P 315487-15-1P  
 315487-19-5P 315487-24-2P 315487-33-3P  
 315487-38-8P 315487-42-4P 315487-46-8P  
 315487-50-4P 315487-59-3P 315487-67-3P  
 315487-71-9P 315487-79-7P 315487-83-3P  
 315487-88-8P 315488-00-7P 315488-12-1P  
 315488-16-5P 315488-23-4P 315488-27-8P  
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 315488-48-3P 315488-53-0P 315488-57-4P  
 315488-65-4P 315488-69-8P 315488-73-4P  
 315488-77-8P 315488-81-4P 315488-86-9P  
 315488-90-5P 315488-94-9P 315488-98-3P  
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 315489-60-2P 315489-64-6P 315489-76-0P  
 315489-84-0P 315489-86-2P 315489-91-9P  
 315489-95-3P 315489-99-7P 315490-04-1P  
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 315490-19-8P 315490-23-4P 315490-28-9P  
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 315490-88-1P 315490-92-7P 315490-96-1P  
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 315491-49-7P 315491-53-3P 315491-61-3P  
 315491-66-8P 315491-71-5P 315491-75-9P  
 315491-79-3P 315491-88-4P 315492-23-0P  
 315492-30-9P 315492-34-3P 315492-38-7P  
 315492-42-3P 315492-46-7P 315492-50-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. and effect of acylhydrazine derivs. as activated blood coagulation factor X inhibitors)

RN 315486-14-7 CAPLUS

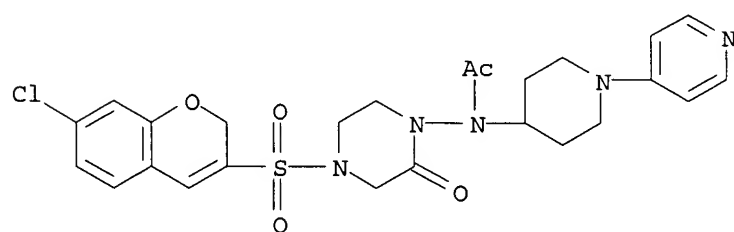
CN Piperazinone, 4-[(7-chloro-2H-1-benzopyran-3-yl)sulfonyl]-1-[formyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

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RN 315486-18-1 CAPLUS

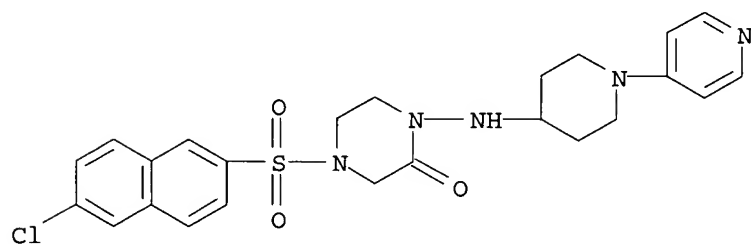
CN Acetamide, N-[4-[(7-chloro-2H-1-benzopyran-3-yl)sulfonyl]-2-oxo-1-piperazinyl]-N-[1-(4-pyridinyl)-4-piperidinyl]-, monohydrochloride (9CI)  
(CA INDEX NAME)



⊗ HCl

RN 315486-23-8 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)

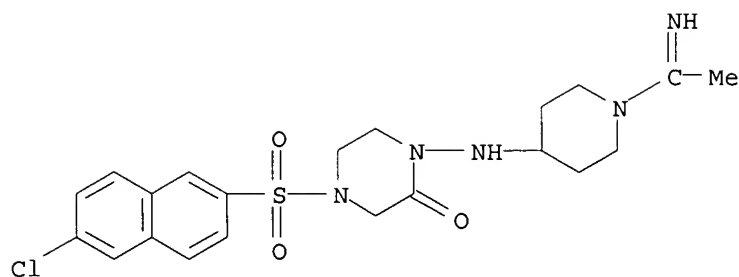


⊗ HCl

RN 315486-36-3 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(1-iminoethyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)

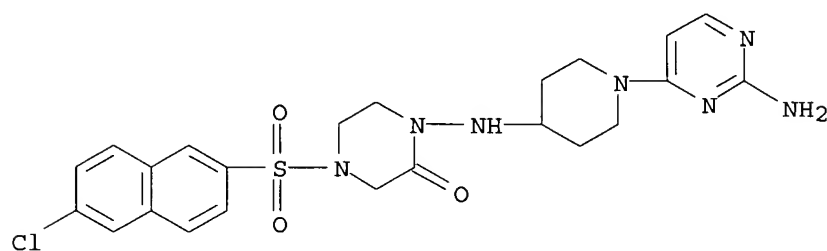
10/018,962



O HCl

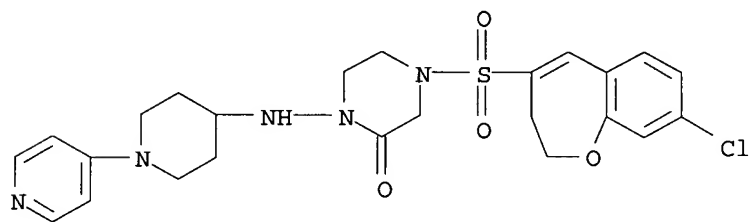
RN 315486-45-4 CAPLUS

CN Piperazinone, 1-[[1-(2-amino-4-pyrimidinyl)-4-piperidinyl]amino]-4-[(6-chloro-2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 315486-49-8 CAPLUS

CN Piperazinone, 4-[[1-(2-amino-4-pyrimidinyl)-4-piperidinyl]amino]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

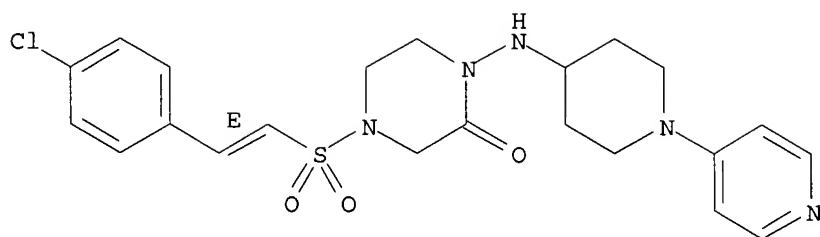


RN 315486-57-8 CAPLUS

CN Piperazinone, 4-[[1-(2-amino-4-pyrimidinyl)-4-piperidinyl]amino]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

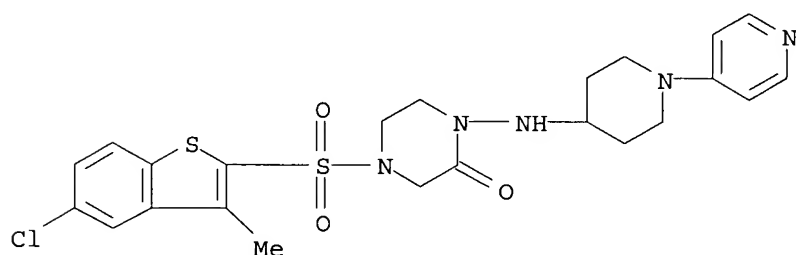
Double bond geometry as shown.

10/018,962



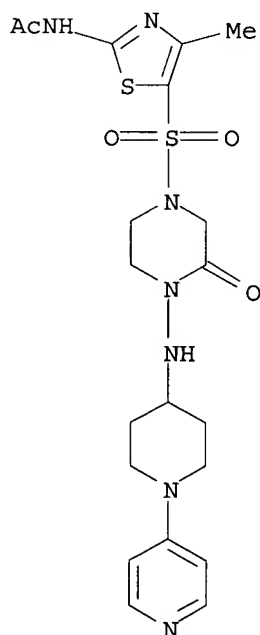
RN 315486-61-4 CAPLUS

CN Piperazinone, 4-[(5-chloro-3-methylbenzo[b]thien-2-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315486-68-1 CAPLUS

CN Acetamide, N-[4-methyl-5-[[3-oxo-4-[[1-(4-pyridinyl)-4-piperidinyl]amino]-1-piperazinyl]sulfonyl]-2-thiazolyl]- (9CI) (CA INDEX NAME)

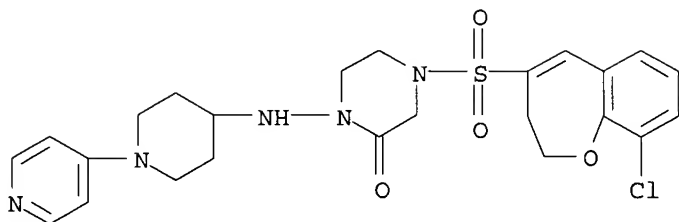


RN 315486-72-7 CAPLUS

CN Piperazinone, 4-[(9-chloro-2,3-dihydro-1-benzoxepin-4-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

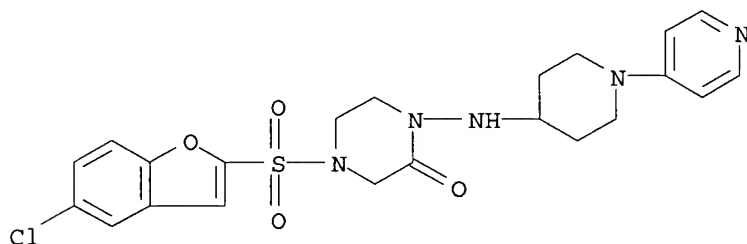


10/018,962



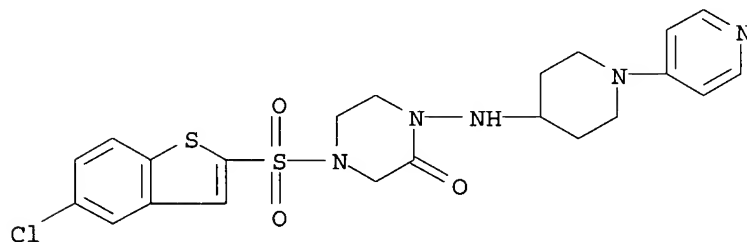
RN 315486-76-1 CAPLUS

CN Piperazinone, 4-[(5-chloro-2-benzofuranyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315486-80-7 CAPLUS

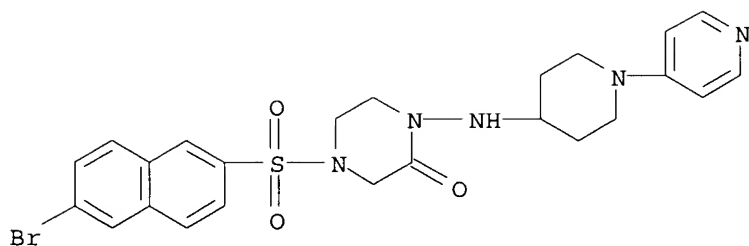
CN Piperazinone, 4-[(5-chlorobenzo[b]thien-2-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315486-84-1 CAPLUS

CN Piperazinone, 4-[(6-bromo-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)

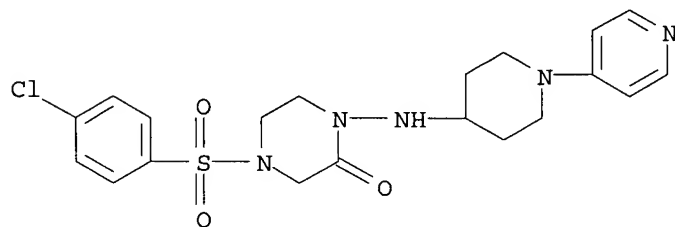
10/018,962



○<sub>2</sub> HCl

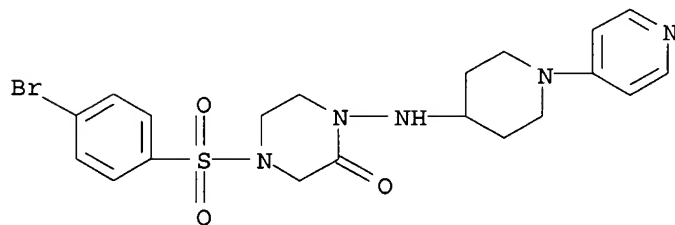
RN 315486-88-5 CAPLUS

CN Piperazinone, 4-[(4-chlorophenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315486-92-1 CAPLUS

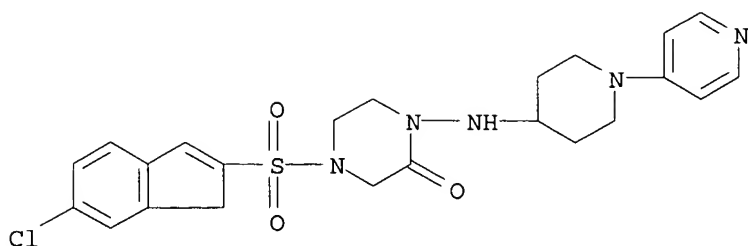
CN Piperazinone, 4-[(4-bromophenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315486-96-5 CAPLUS

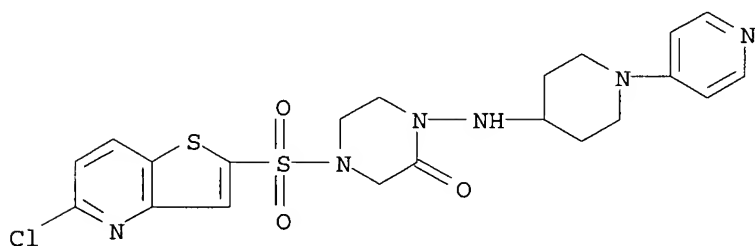
CN Piperazinone, 4-[(6-chloro-1H-inden-2-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

10/018,962



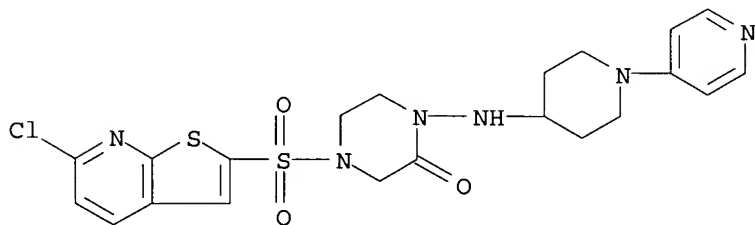
RN 315487-00-4 CAPLUS

CN Piperazinone, 4-[(5-chlorothieno[3,2-b]pyridin-2-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315487-04-8 CAPLUS

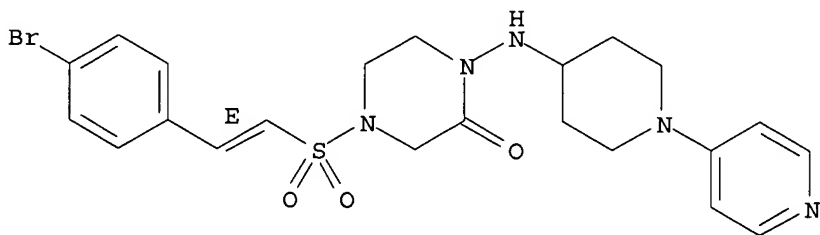
CN Piperazinone, 4-[(6-chlorothieno[2,3-b]pyridin-2-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315487-07-1 CAPLUS

CN Piperazinone, 4-[[1E)-2-(4-bromophenyl)ethenylsulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

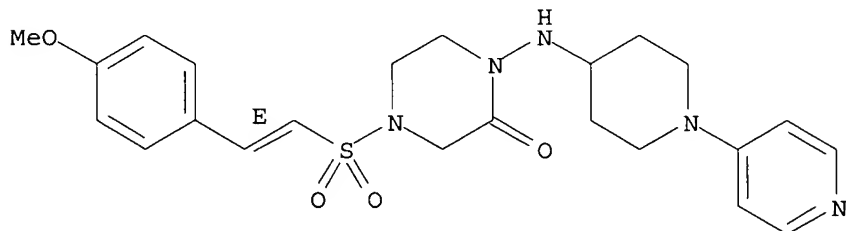


RN 315487-11-7 CAPLUS

10/018,962

CN Piperazinone, 4-[[[(1E)-2-(4-methoxyphenyl)ethenyl]sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

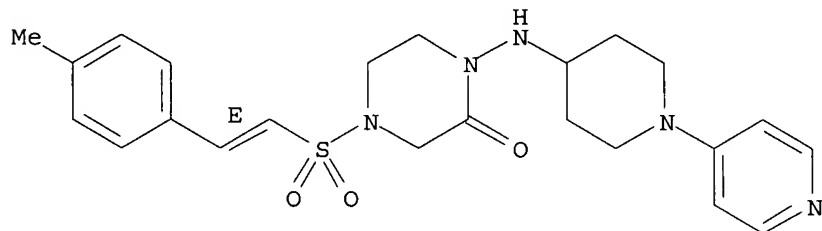
Double bond geometry as shown.



RN 315487-15-1 CAPLUS

CN Piperazinone, 4-[[[(1E)-2-(4-methylphenyl)ethenyl]sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

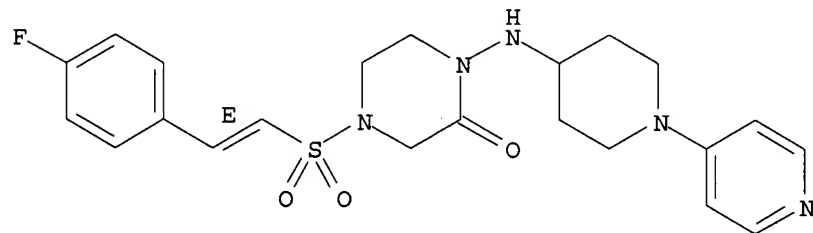
Double bond geometry as shown.



RN 315487-19-5 CAPLUS

CN Piperazinone, 4-[[[(1E)-2-(4-fluorophenyl)ethenyl]sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

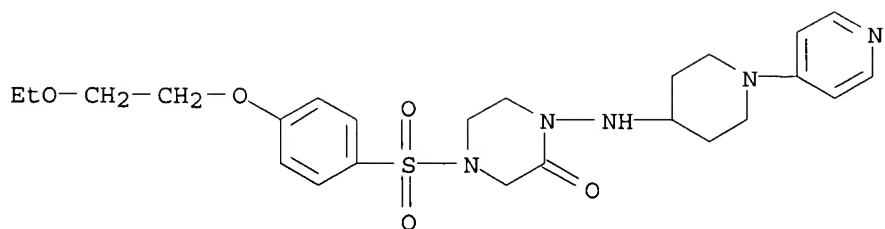
Double bond geometry as shown.



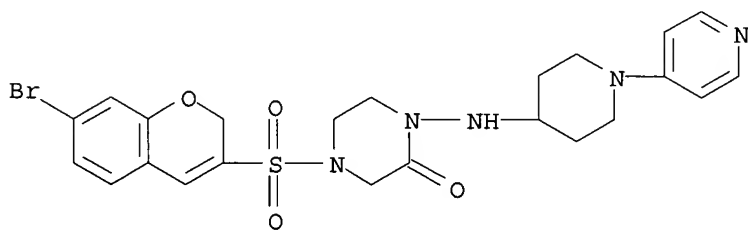
RN 315487-24-2 CAPLUS

CN Piperazinone, 4-[[[4-(2-ethoxyethoxy)phenyl]sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

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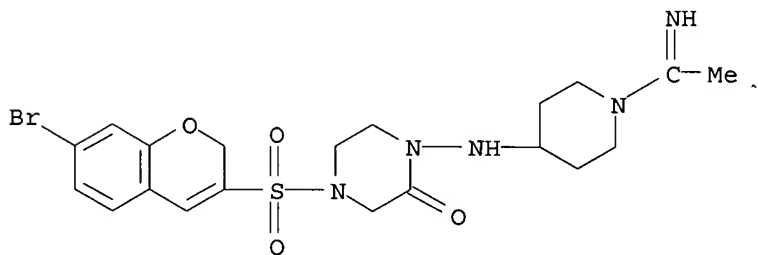


RN 315487-33-3 CAPLUS  
CN Piperazinone, 4-[(7-bromo-2H-1-benzopyran-3-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

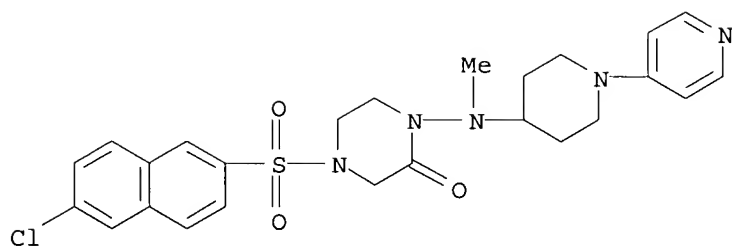
RN 315487-38-8 CAPLUS  
CN Piperazinone, 4-[(7-bromo-2H-1-benzopyran-3-yl)sulfonyl]-1-[[1-(1-iminoethyl)-4-piperidinyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

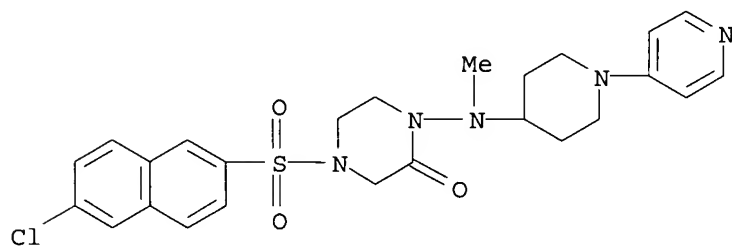
RN 315487-42-4 CAPLUS  
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

10/018,962



RN 315487-46-8 CAPLUS

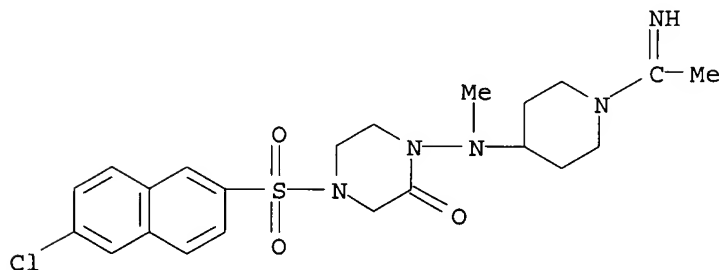
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



O HCl

RN 315487-50-4 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(1-iminoethyl)-4-piperidinyl]methylamino]-, monohydrochloride (9CI) (CA INDEX NAME)

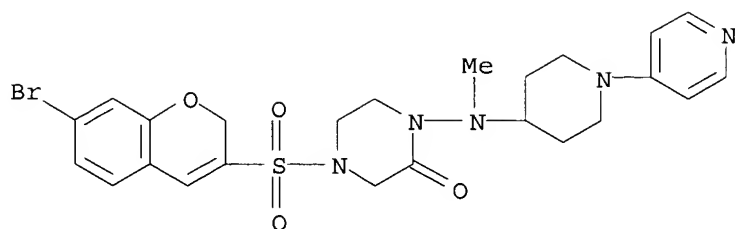


O HCl

RN 315487-59-3 CAPLUS

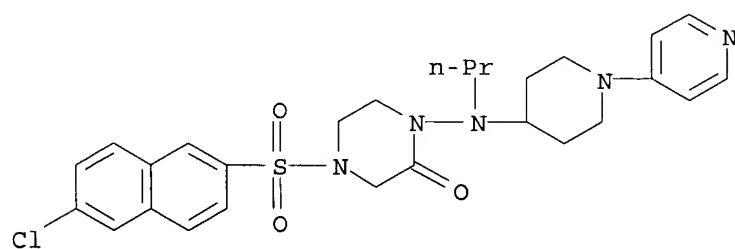
CN Piperazinone, 4-[(7-bromo-2H-1-benzopyran-3-yl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

10/018,962



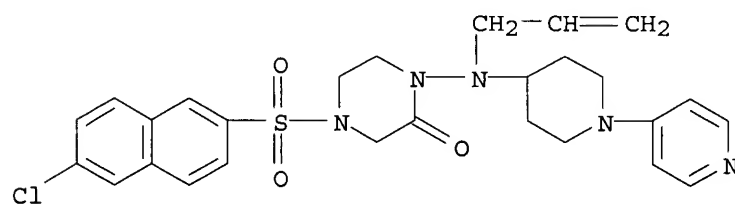
RN 315487-67-3 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[propyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



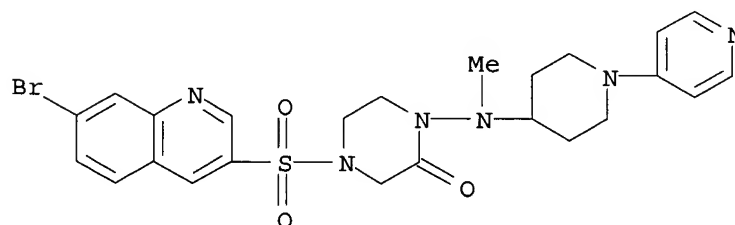
RN 315487-71-9 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[2-propenyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315487-79-7 CAPLUS

CN Piperazinone, 4-[(7-bromo-3-quinolinyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)

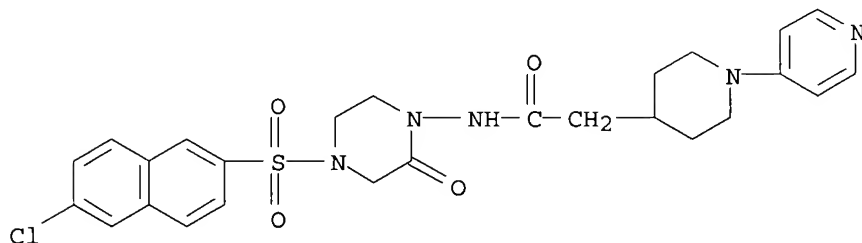


O HCl

10/018,962

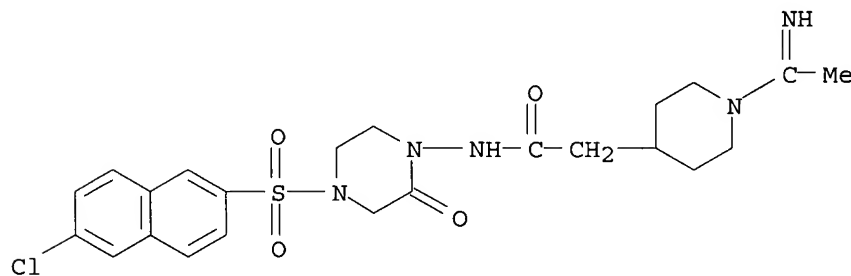
RN 315487-83-3 CAPLUS

CN 4-Piperidineacetamide, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-1-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 315487-88-8 CAPLUS

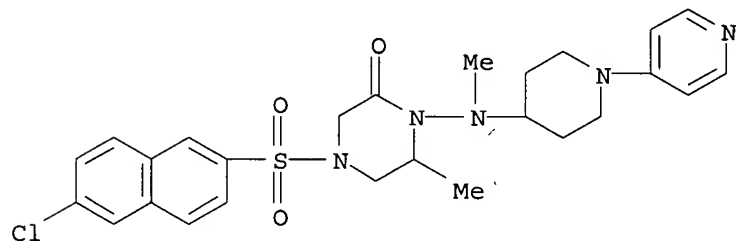
CN 4-Piperidineacetamide, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-1-(1-iminoethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



O<sub>2</sub> HCl

RN 315488-00-7 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-methyl-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



O HCl

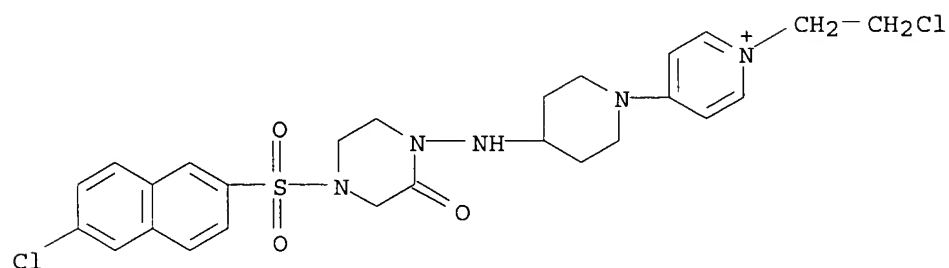
RN 315488-12-1 CAPLUS

CN Pyridinium, 1-(2-chloroethyl)-4-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-



10/018,962

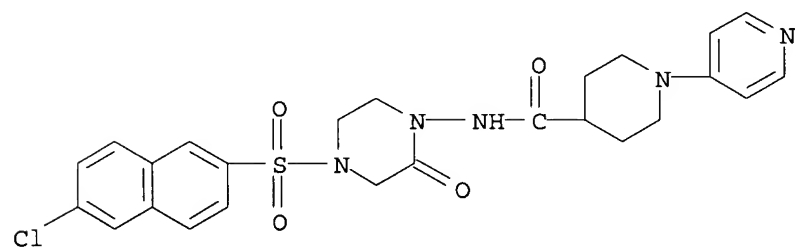
2-oxo-1-piperazinyl]amino]-1-piperidinyl]-, chloride (9CI) (CA INDEX NAME)



⊙ Cl<sup>-</sup>

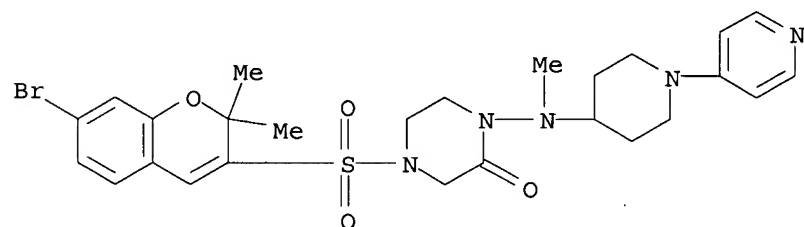
RN 315488-16-5 CAPLUS

CN 4-Piperidinecarboxamide, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-1-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 315488-23-4 CAPLUS

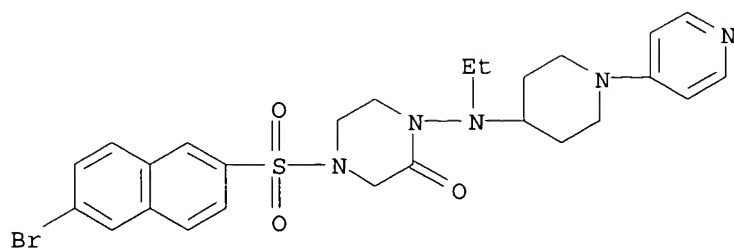
CN Piperazinone, 4-[(7-bromo-2,2-dimethyl-2H-1-benzopyran-3-yl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315488-27-8 CAPLUS

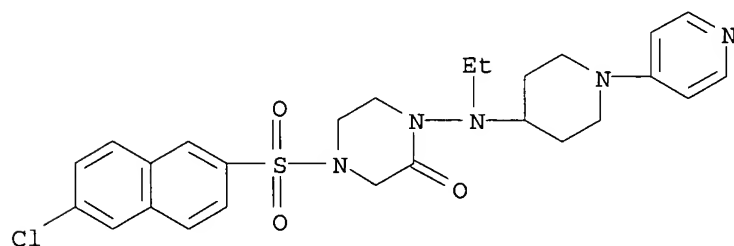
CN Piperazinone, 4-[(6-bromo-2-naphthalenyl)sulfonyl]-1-[ethyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

10/018,962



RN 315488-31-4 CAPLUS

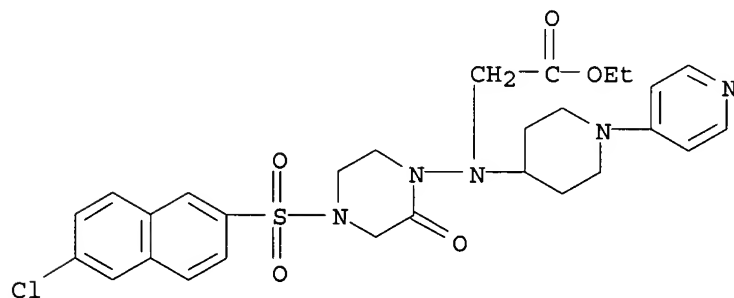
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[ethyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



⊗ HCl

RN 315488-35-8 CAPLUS

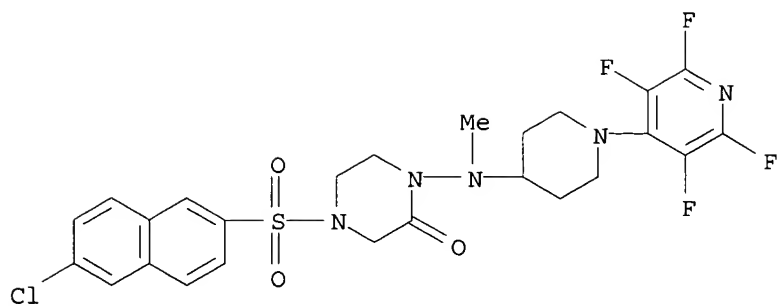
CN Glycine, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-N-[1-(4-pyridinyl)-4-piperidinyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 315488-39-2 CAPLUS

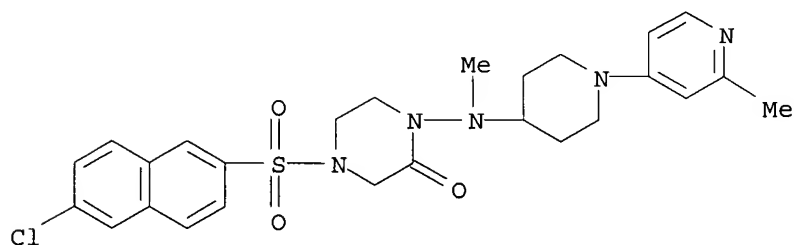
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2,3,5,6-tetrafluoro-4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

10/018,962



RN 315488-48-3 CAPLUS

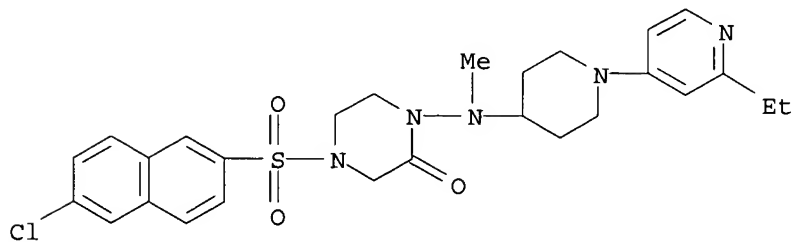
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



O HCl

RN 315488-53-0 CAPLUS

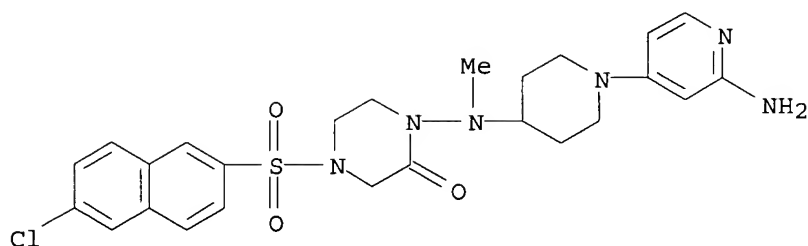
CN Piperazinone, 1-[[1-(2-ethyl-4-pyridinyl)-4-piperidinyl]methylamino]-4-[(6-chloro-2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 315488-57-4 CAPLUS

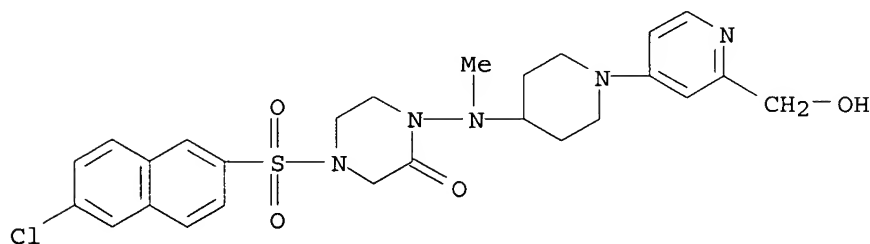
CN Piperazinone, 1-[[1-(2-amino-4-pyridinyl)-4-piperidinyl]methylamino]-4-[(6-chloro-2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)

10/018,962



RN 315488-65-4 CAPLUS

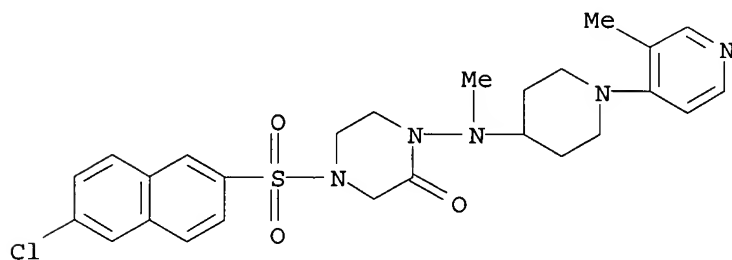
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(hydroxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]-, monohydrochloride (9CI) (CA INDEX NAME)



O HCl

RN 315488-69-8 CAPLUS

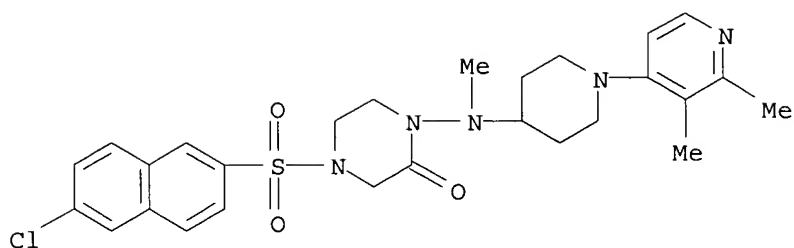
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(3-methyl-4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315488-73-4 CAPLUS

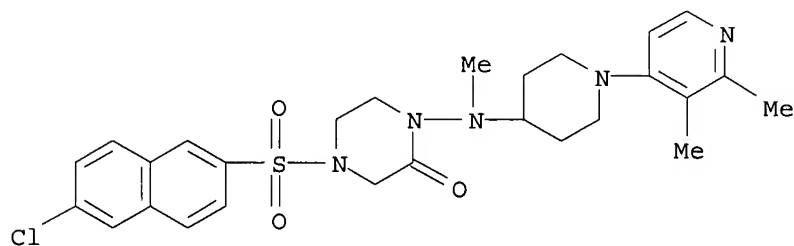
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2,3-dimethyl-4-pyridinyl)-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)

10/018,962



RN 315488-77-8 CAPLUS

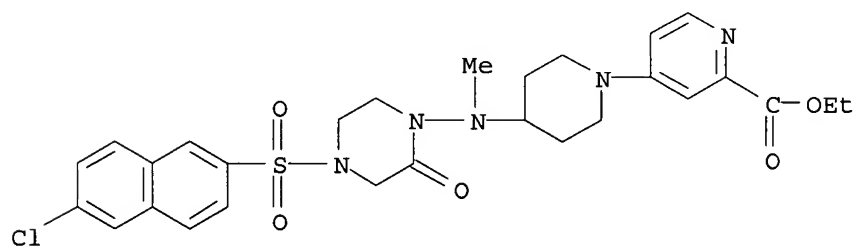
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2,3-dimethyl-4-pyridinyl)-4-piperidinyl]methylamino]-, monohydrochloride (9CI) (CA INDEX NAME)



O HCl

RN 315488-81-4 CAPLUS

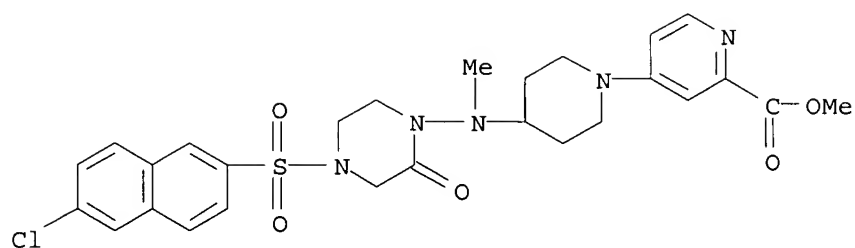
CN 2-Pyridinecarboxylic acid, 4-[4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]methylamino]-1-piperidinyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 315488-86-9 CAPLUS

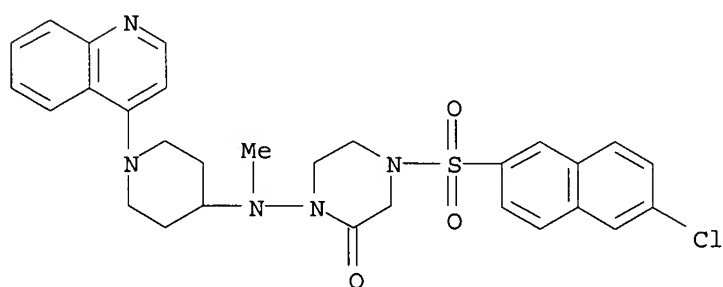
CN 2-Pyridinecarboxylic acid, 4-[4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]methylamino]-1-piperidinyl]-, methyl ester (9CI) (CA INDEX NAME)

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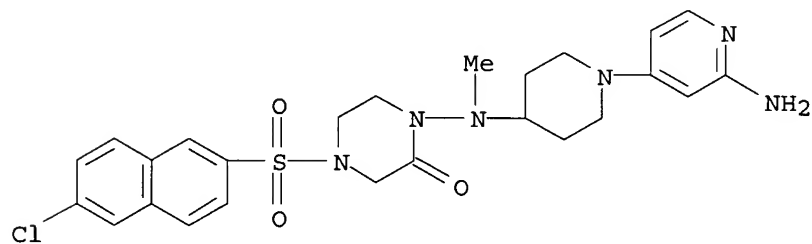
RN 315488-90-5 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-quinolinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315488-94-9 CAPLUS

CN Piperazinone, 1-[[1-(2-amino-4-pyridinyl)-4-piperidinyl]methylamino]-4-[(6-chloro-2-naphthalenyl)sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

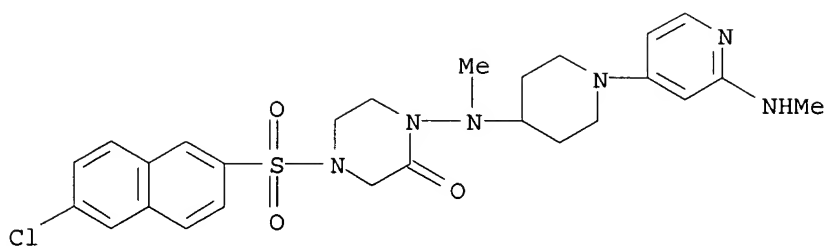


O HCl

RN 315488-98-3 CAPLUS

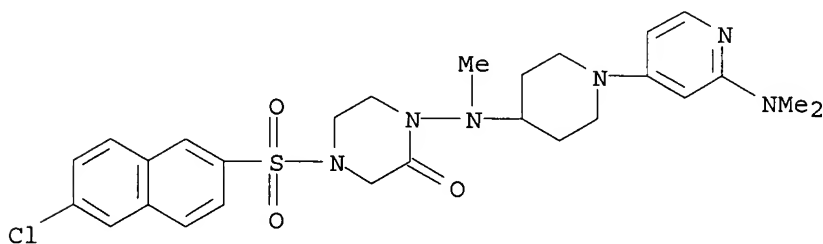
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-[2-(methylamino)-4-pyridinyl]-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

10/018,962



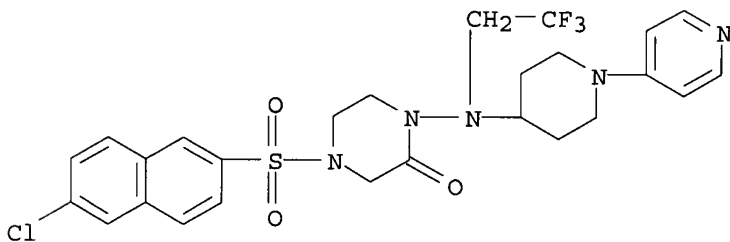
RN 315489-02-2 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(dimethylamino)-4-pyridinyl]-4-piperidinyl]methyamino]- (9CI) (CA INDEX NAME)



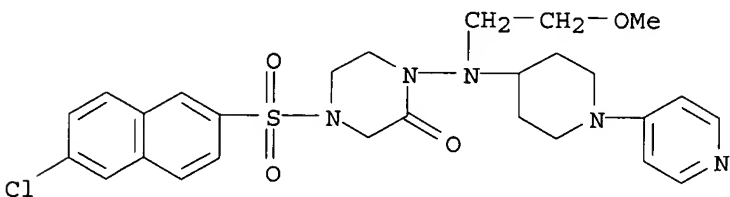
RN 315489-10-2 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl](2,2,2-trifluoroethyl)amino]- (9CI) (CA INDEX NAME)



RN 315489-14-6 CAPLUS

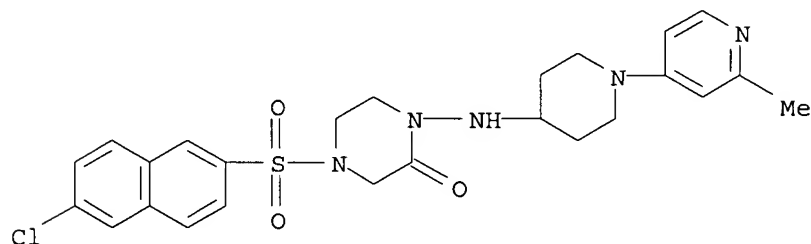
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[(2-methoxyethyl)[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315489-60-2 CAPLUS

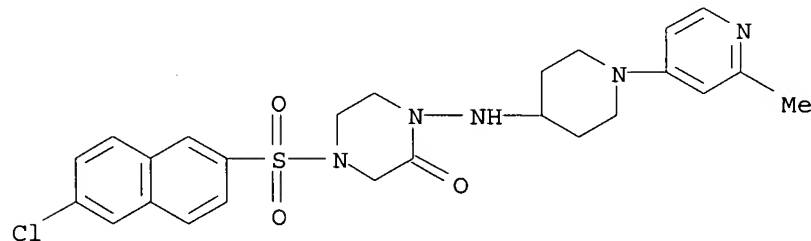
10/018,962

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315489-64-6 CAPLUS

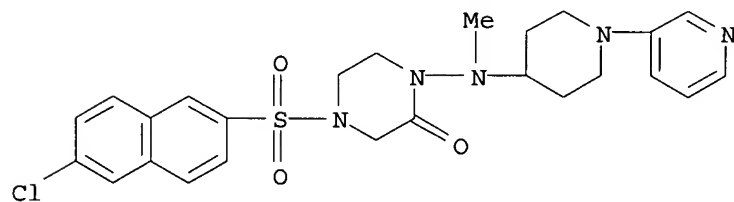
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

RN 315489-76-0 CAPLUS

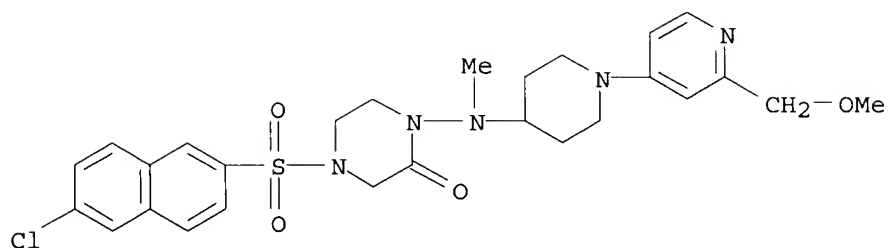
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(3-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315489-84-0 CAPLUS

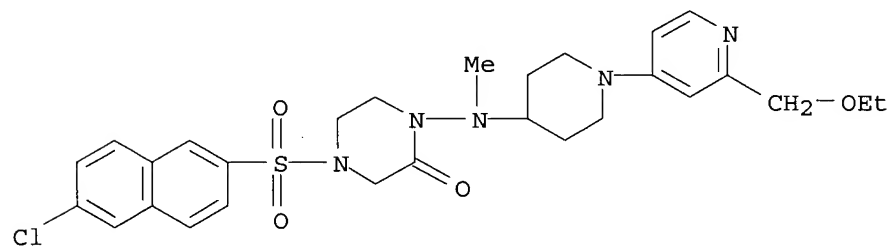
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(methoxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]-, monohydrochloride (9CI) (CA INDEX NAME)



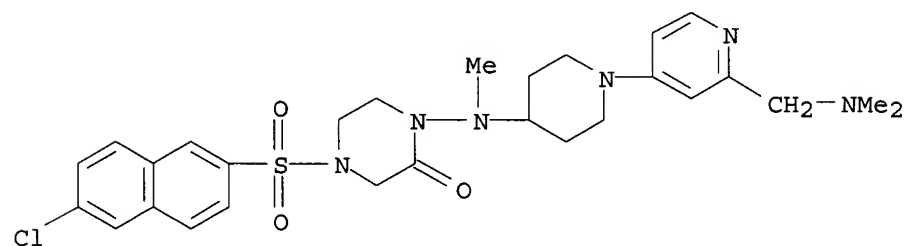


⊙ HCl

RN 315489-86-2 CAPLUS  
 CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(ethoxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)

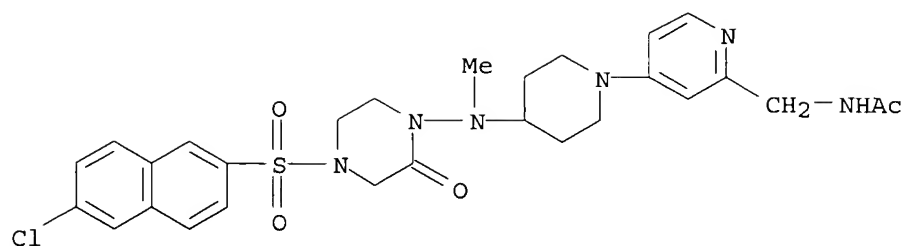


RN 315489-91-9 CAPLUS  
 CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-[(dimethylamino)methyl]-4-pyridinyl]-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)



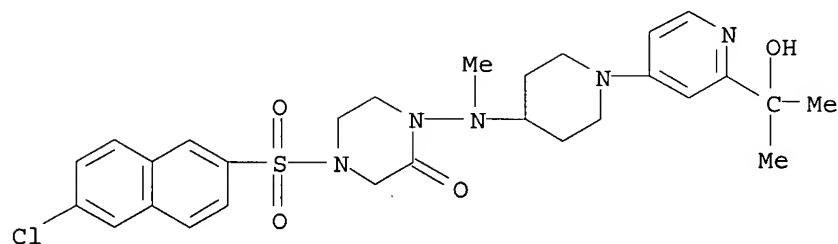
RN 315489-95-3 CAPLUS  
 CN Acetamide, N-[[4-[4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]methylamino]-1-piperidinyl]-2-pyridinyl]methyl]- (9CI) (CA INDEX NAME)

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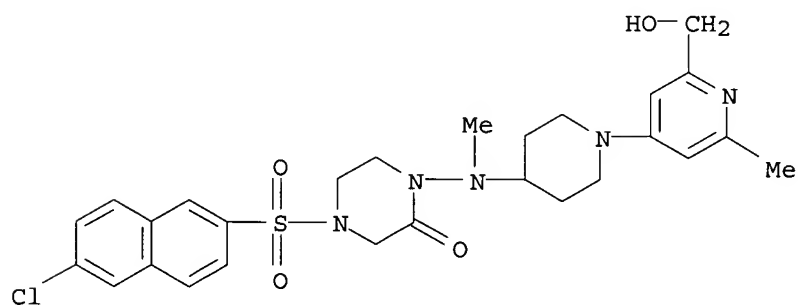
RN 315489-99-7 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(1-hydroxy-1-methylethyl)-4-pyridinyl]-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)



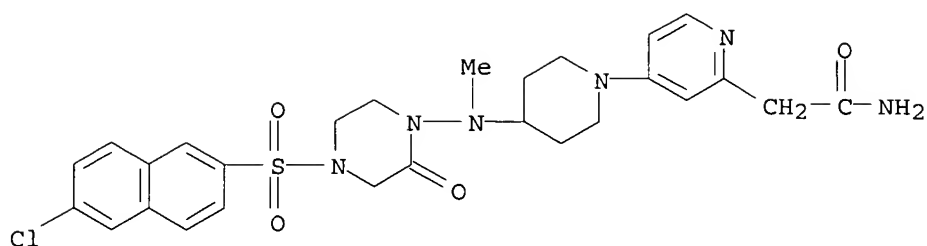
RN 315490-04-1 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(hydroxymethyl)-6-methyl-4-pyridinyl]-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)



RN 315490-08-5 CAPLUS

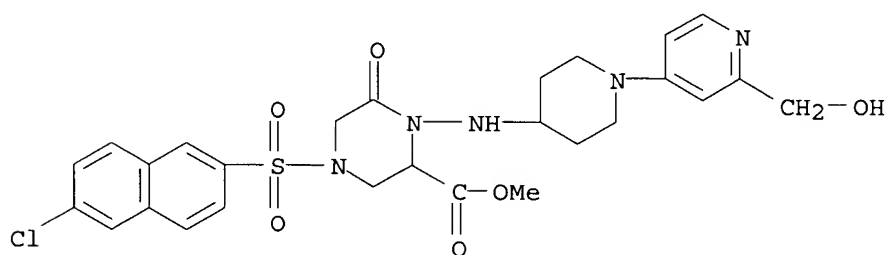
CN 2-Pyridineacetamide, 4-[4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]methylamino]-1-piperidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



O HCl

RN 315490-12-1 CAPLUS

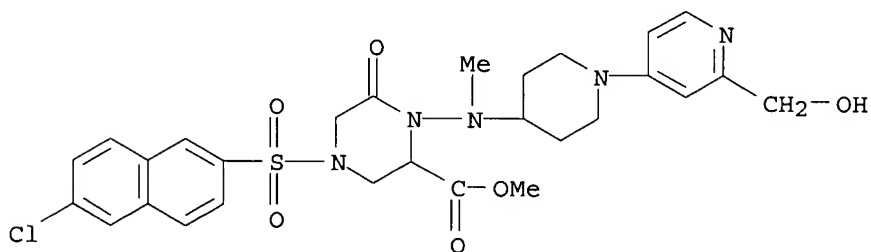
CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(hydroxymethyl)-4-pyridinyl]-4-piperidinyl]amino]-6-oxo-, methyl ester, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

RN 315490-15-4 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(hydroxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]-6-oxo-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)



O HCl

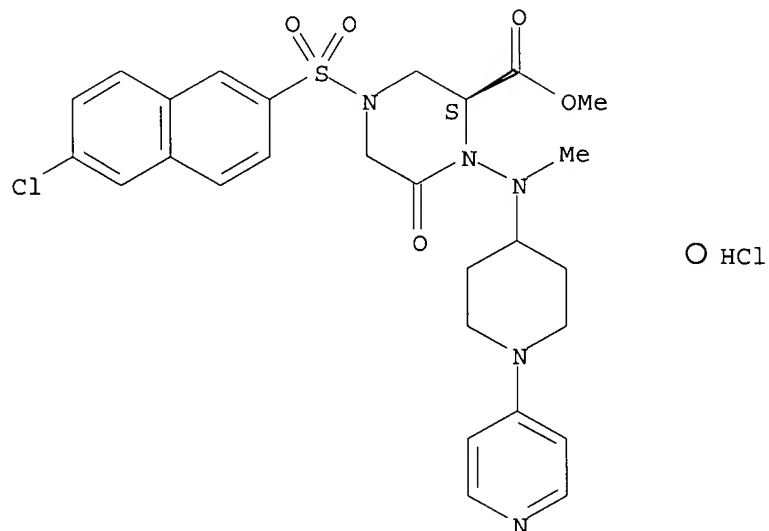
RN 315490-19-8 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-

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[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester,  
monohydrochloride, (2S)- (9CI) (CA INDEX NAME)

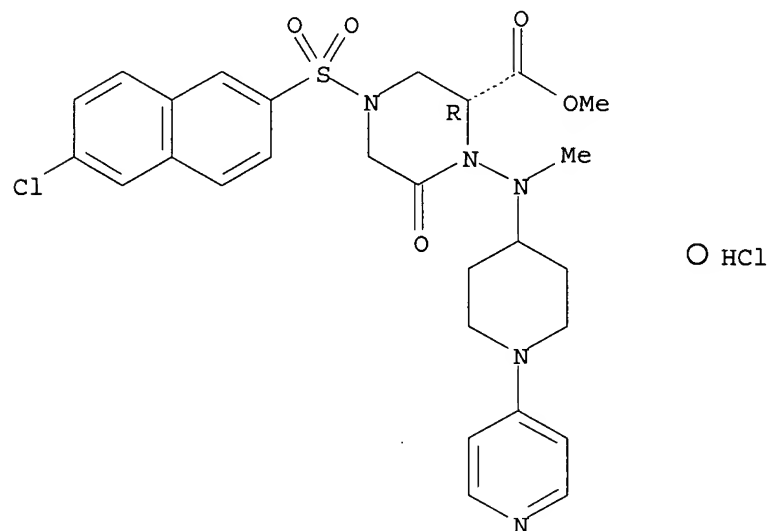
Absolute stereochemistry.



RN 315490-23-4 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester, monohydrochloride, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

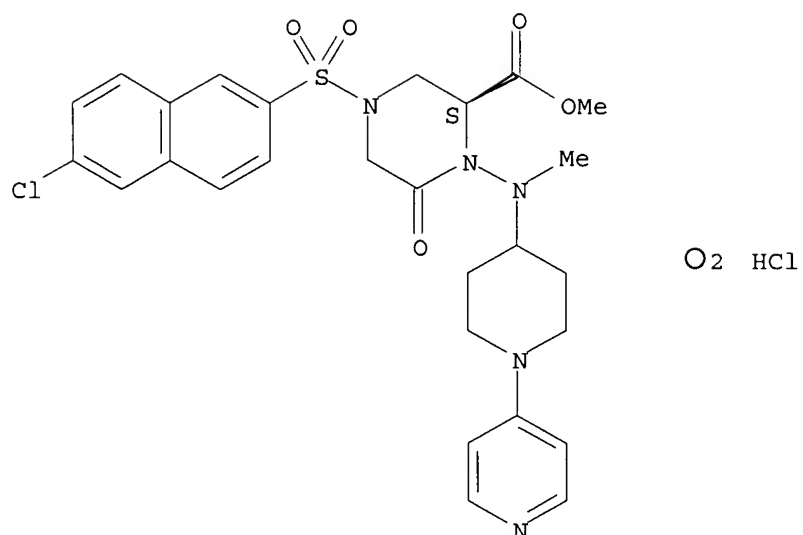


RN 315490-28-9 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester, dihydrochloride, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

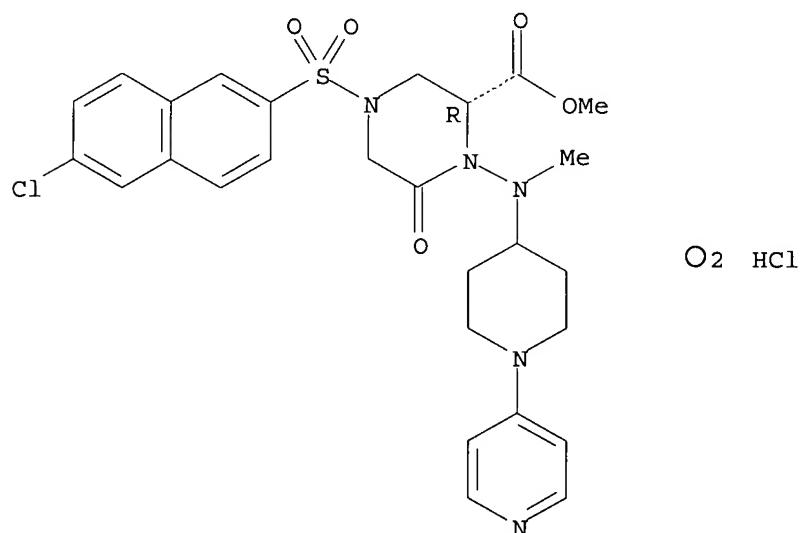
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RN 315490-32-5 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester, dihydrochloride, (2R)- (9CI) (CA INDEX NAME)

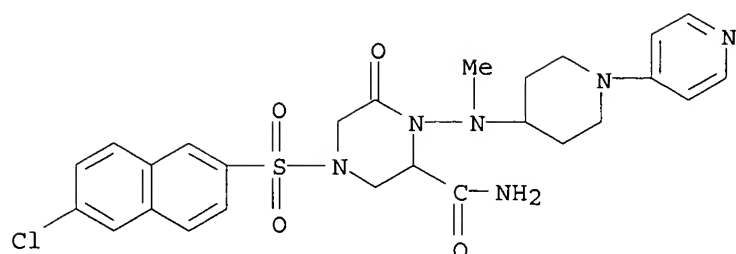
Absolute stereochemistry.



RN 315490-45-0 CAPLUS

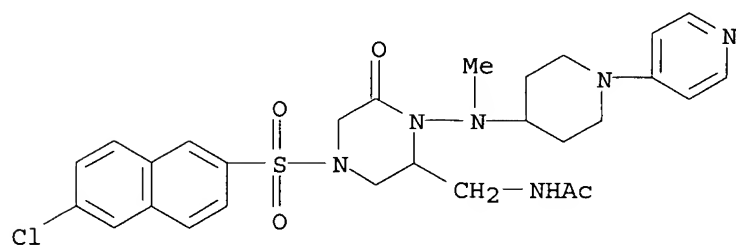
CN 2-Piperazinecarboxamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

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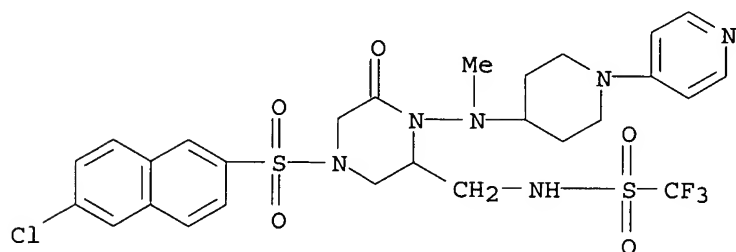
○ HCl

RN 315490-54-1 CAPLUS  
CN Acetamide, N-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



○ HCl

RN 315490-58-5 CAPLUS  
CN Methanesulfonamide, N-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]methyl]-1,1,1-trifluoro-, monohydrochloride (9CI) (CA INDEX NAME)

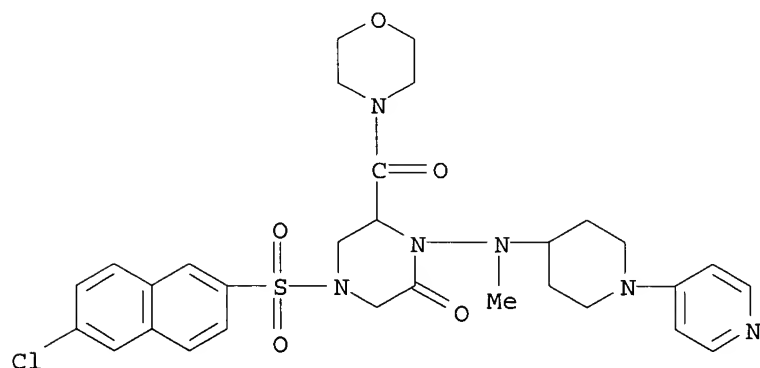


○ HCl

RN 315490-63-2 CAPLUS  
CN Morpholine, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-

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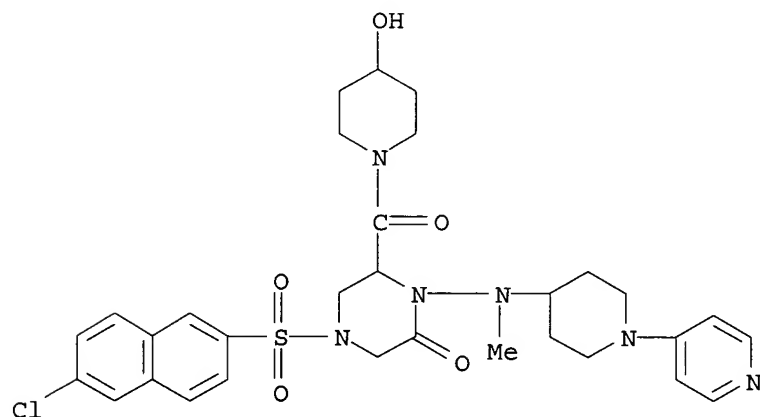
pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)



○ HCl

RN 315490-67-6 CAPLUS

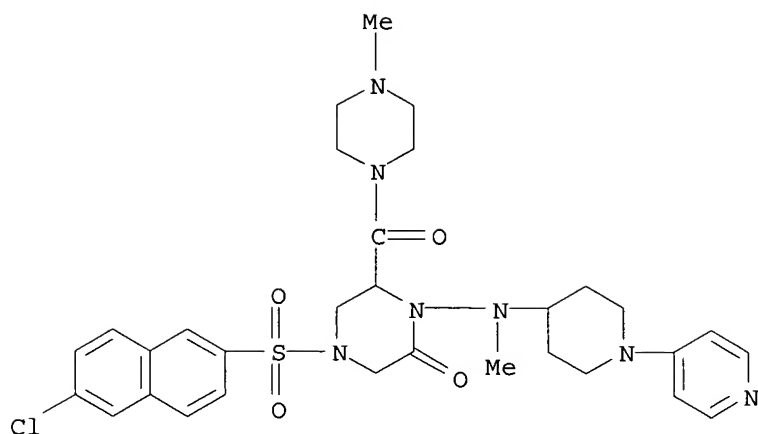
CN 4-Piperidinol, 1-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-4-methylpiperazine]dihydrochloride (9CI) (CA INDEX NAME)



○ HCl

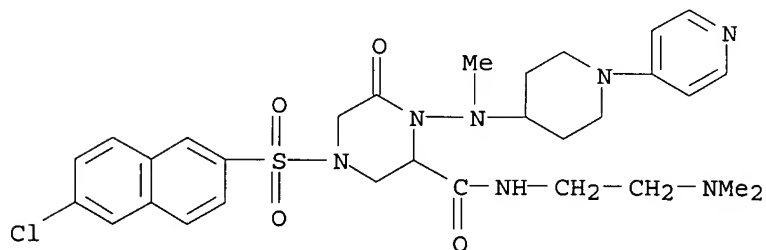
RN 315490-72-3 CAPLUS

CN Piperazine, 1-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-4-methylpiperazine]dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

RN 315490-76-7 CAPLUS  
 CN 2-Piperazinecarboxamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-N-[2-(dimethylamino)ethyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, dihydrochloride (9CI) (CA INDEX NAME)

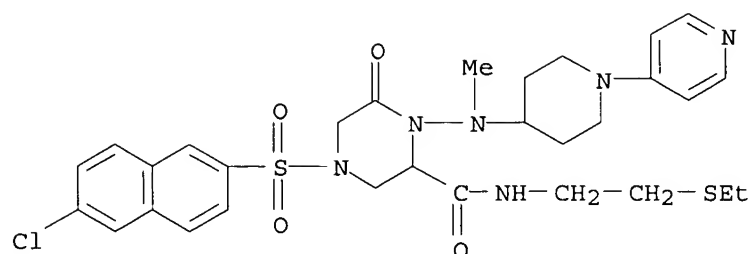


O2 HCl

RN 315490-84-7 CAPLUS  
 CN 2-Piperazinecarboxamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-N-[2-(ethylthio)ethyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, monohydrochloride (9CI) (CA INDEX NAME)



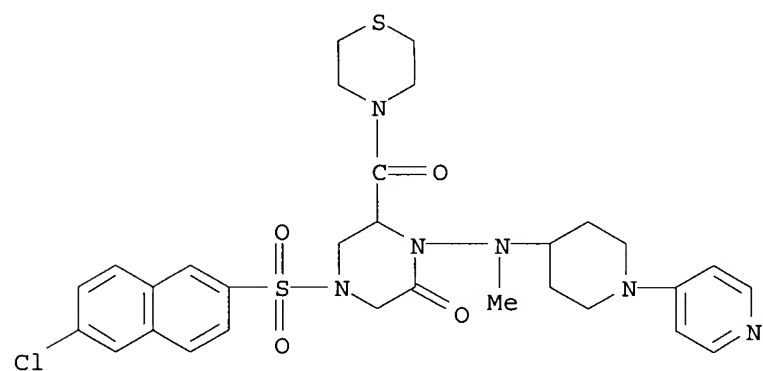
10/018,962



⊕ HCl

RN 315490-88-1 CAPLUS

CN Thiomorpholine, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

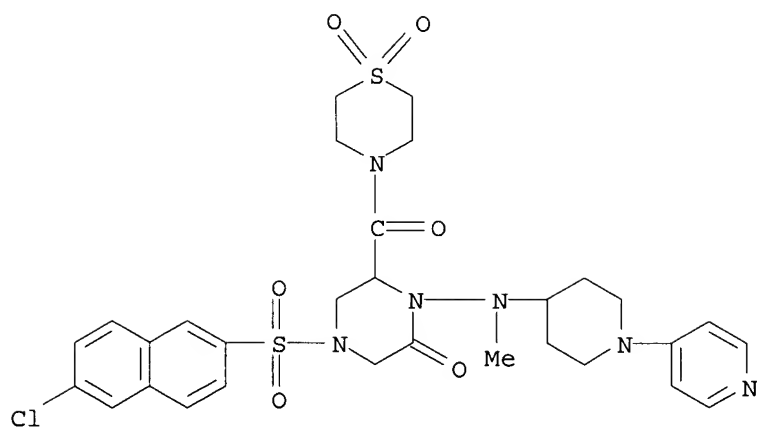


⊕ HCl

RN 315490-92-7 CAPLUS

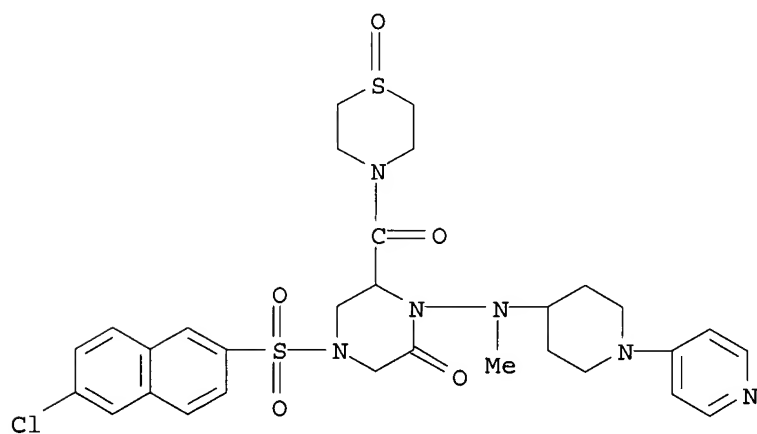
CN Thiomorpholine, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)

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⊕ HCl

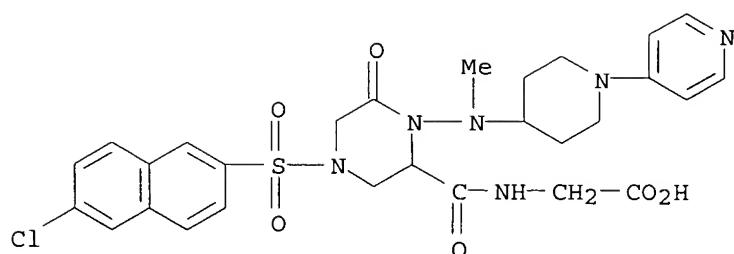
RN 315490-96-1 CAPLUS  
CN Thiomorpholine, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-, 1-oxide, monohydrochloride (9CI) (CA INDEX NAME)



⊖ HCl

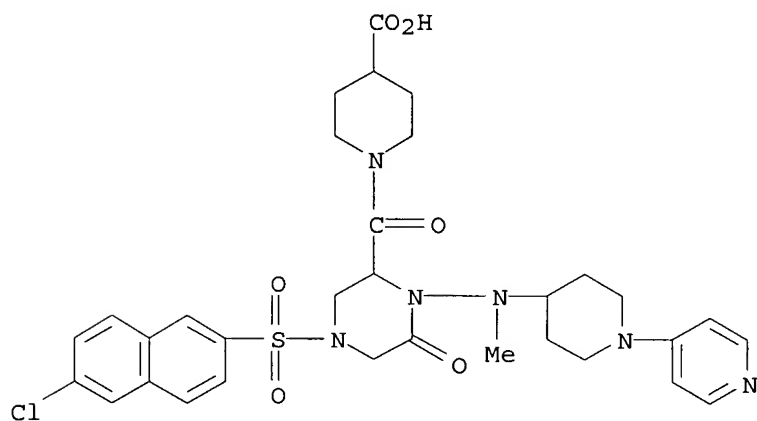
RN 315491-00-0 CAPLUS  
CN Glycine, N-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)

10/018,962



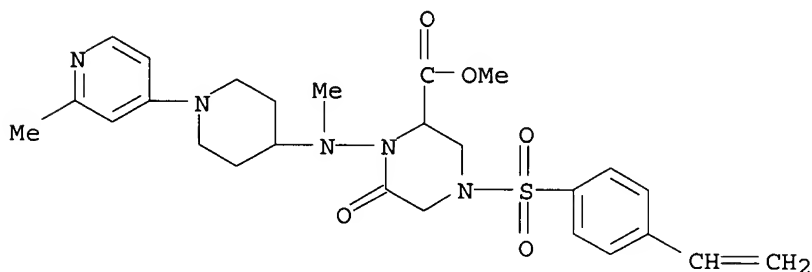
RN 315491-04-4 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-methyl-1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)



RN 315491-26-0 CAPLUS

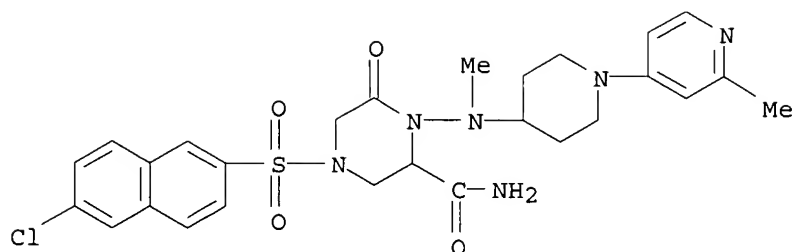
CN 2-Piperazinecarboxylic acid, 4-[[4-(4-ethenylphenyl)sulfonyl]-1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



RN 315491-31-7 CAPLUS

CN 2-Piperazinecarboxamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl-1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, monohydrochloride (9CI) (CA INDEX NAME)

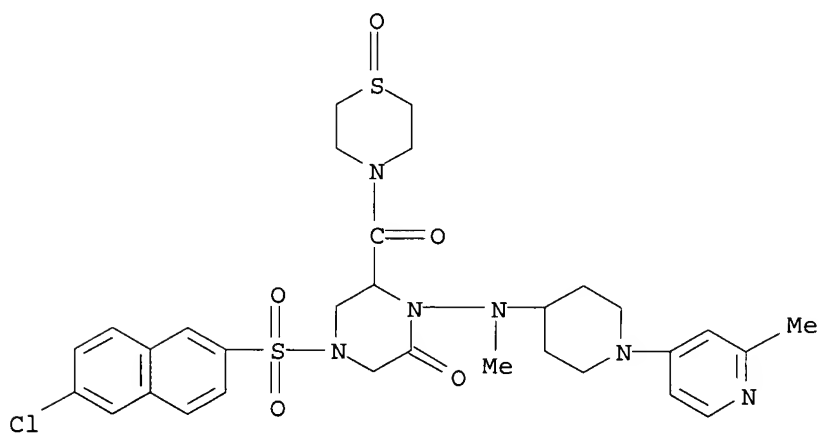
10/018,962



⊗ HCl

RN 315491-36-2 CAPLUS

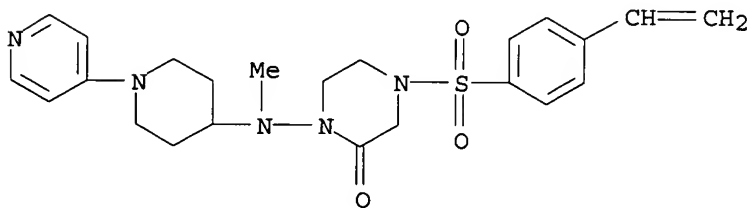
CN Thiomorpholine, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-, 1-oxide, monohydrochloride (9CI) (CA INDEX NAME)



○ HCl

RN 315491-40-8 CAPLUS

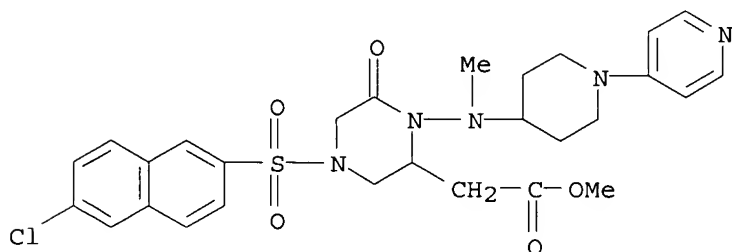
CN Piperazinone, 4-[(4-ethenylphenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315491-49-7 CAPLUS

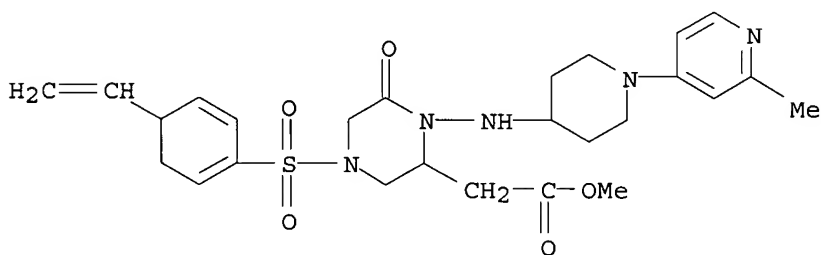
10/018,962

CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



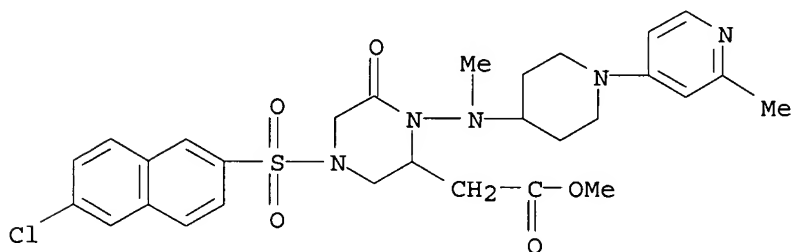
RN 315491-53-3 CAPLUS

CN 2-Piperazineacetic acid, 4-[(4-ethenyl-1,5-cyclohexadien-1-yl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



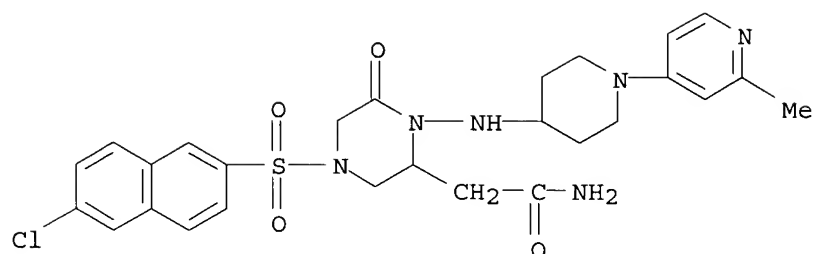
RN 315491-61-3 CAPLUS

CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



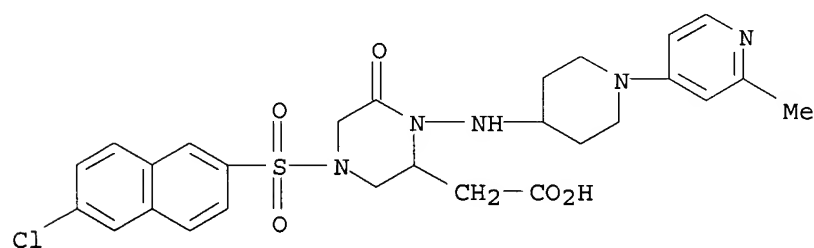
RN 315491-66-8 CAPLUS

CN 2-Piperazineacetamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo- (9CI) (CA INDEX NAME)



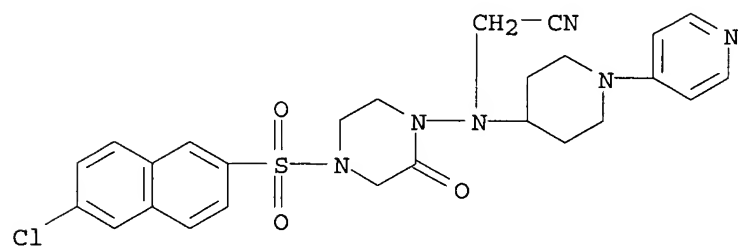
RN 315491-71-5 CAPLUS

CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo- (9CI) (CA INDEX NAME)



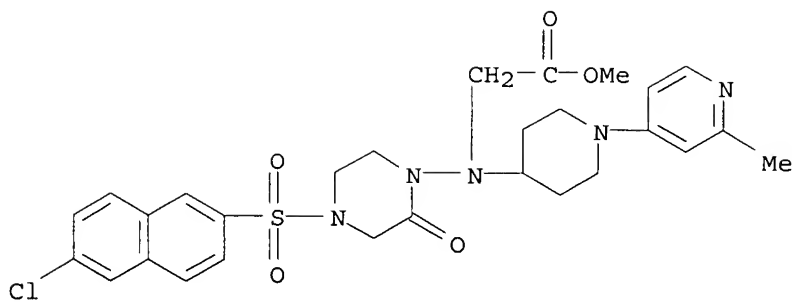
RN 315491-75-9 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[(cyanomethyl)[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



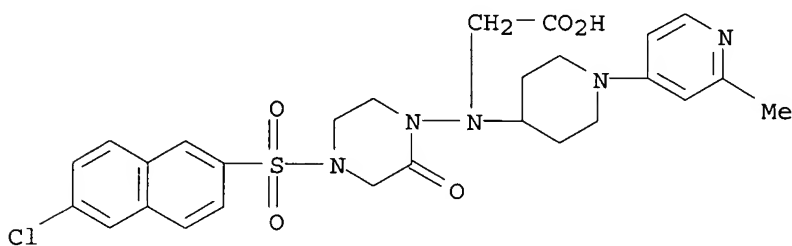
RN 315491-79-3 CAPLUS

CN Glycine, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-N-[1-(2-methyl-4-pyridinyl)-4-piperidinyl]-, methyl ester (9CI) (CA INDEX NAME)



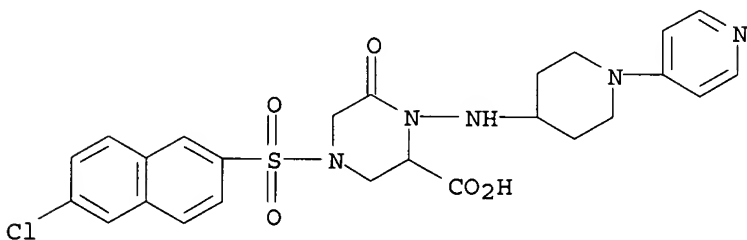
RN 315491-88-4 CAPLUS

CN Glycine, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-N-[1-(2-methyl-4-pyridinyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



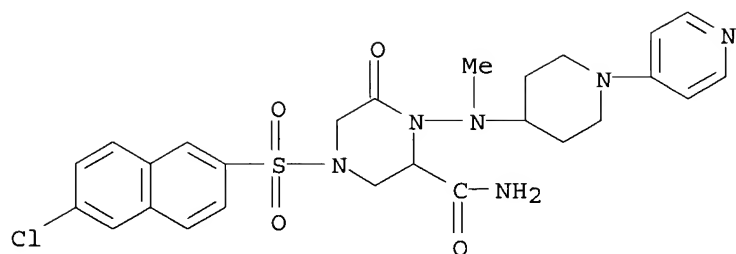
RN 315492-23-0 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



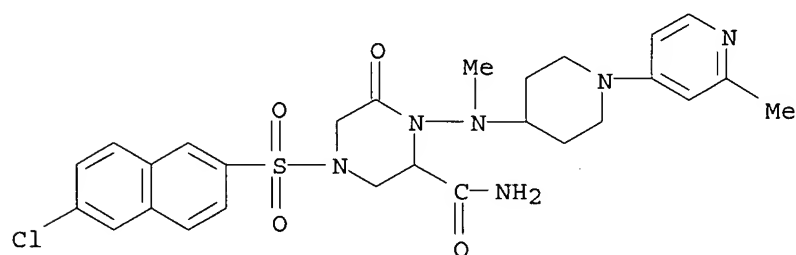
RN 315492-30-9 CAPLUS

CN 2-Piperazinecarboxamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo- (9CI) (CA INDEX NAME)



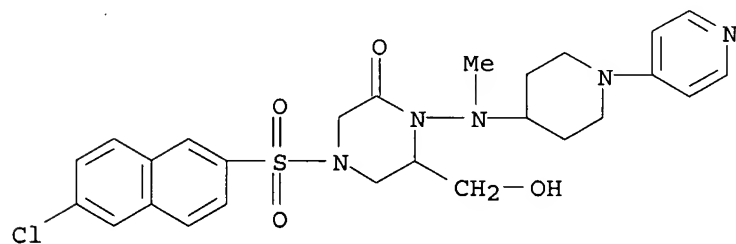
RN 315492-34-3 CAPLUS

CN 2-Piperazinecarboxamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo- (9CI) (CA INDEX NAME)



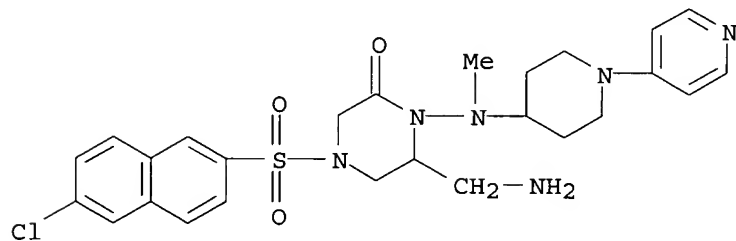
RN 315492-38-7 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-(hydroxymethyl)-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315492-42-3 CAPLUS

CN Piperazinone, 6-(aminomethyl)-4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

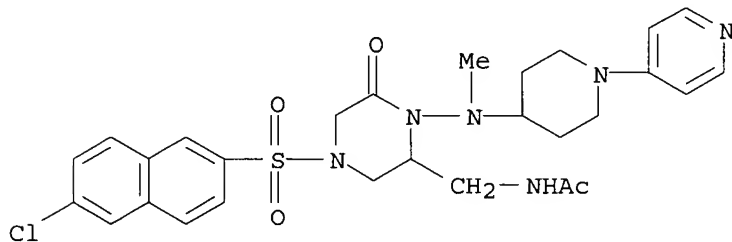




10/018,962

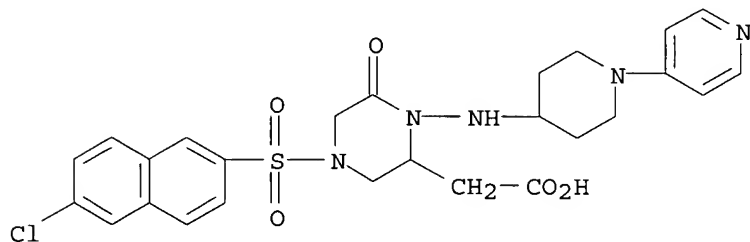
RN 315492-46-7 CAPLUS

CN Acetamide, N-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



RN 315492-50-3 CAPLUS

CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



IT 315494-83-8 315496-06-1 315496-34-5

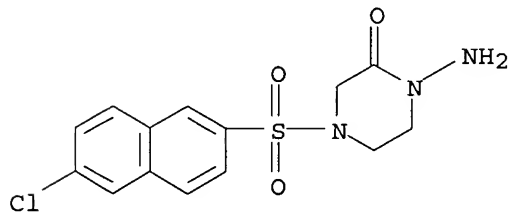
315496-69-6 315496-73-2 315497-15-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. and effect of acylhydrazine derivs. as activated blood coagulation factor X inhibitors)

RN 315494-83-8 CAPLUS

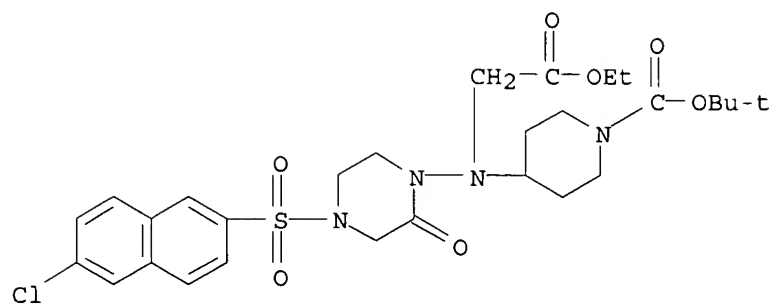
CN Piperazinone, 1-amino-4-[(6-chloro-2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 315496-06-1 CAPLUS

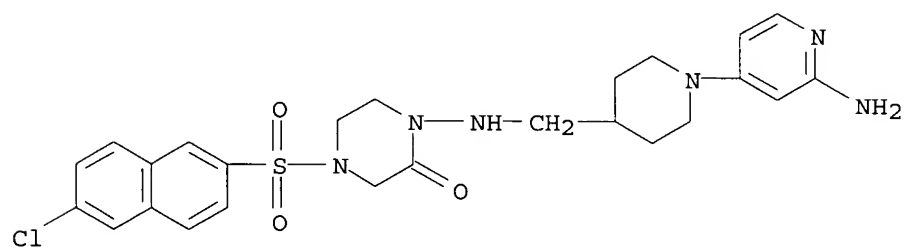
CN 1-Piperidinecarboxylic acid, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl](2-ethoxy-2-oxoethyl)amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

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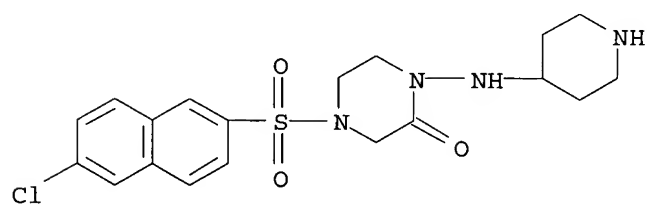
RN 315496-34-5 CAPLUS

CN Piperazinone, 1-[[[1-(2-amino-4-pyridinyl)-4-piperidinyl]methyl]amino]-4-[(6-chloro-2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 315496-69-6 CAPLUS

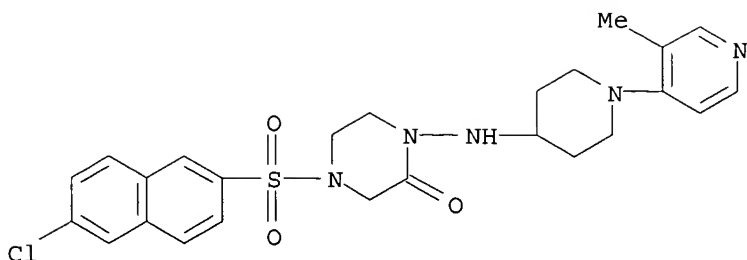
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-(4-piperidinylamino)-, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

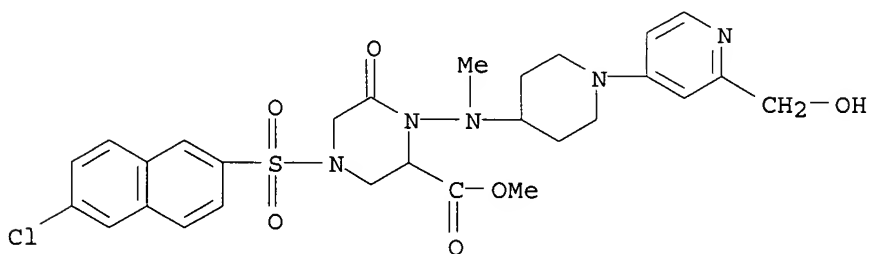
RN 315496-73-2 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(3-methyl-4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315497-15-5 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(hydroxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)

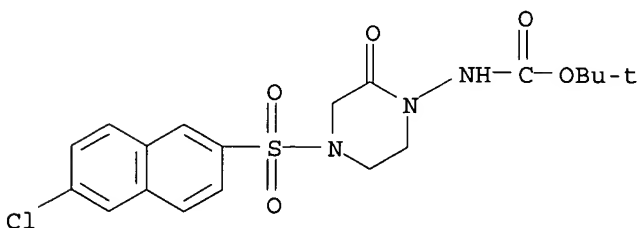


IT 315492-68-3P 315492-72-9P 315492-77-4P  
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 315493-22-2P 315493-26-6P 315493-31-3P  
 315494-26-9P 315494-30-5P 315494-34-9P  
 315494-38-3P 315495-55-7P 315495-81-9P  
 315497-35-9P 315497-43-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and effect of acylhydrazine derivs. as activated blood coagulation factor X inhibitors)

RN 315492-68-3 CAPLUS

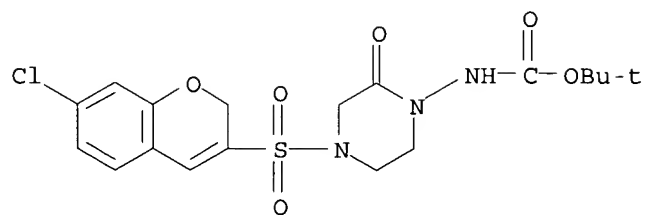
CN Carbamic acid, [4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 315492-72-9 CAPLUS

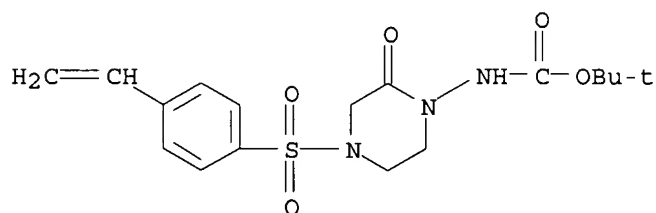
CN Carbamic acid, [4-[(7-chloro-2H-1-benzopyran-3-yl)sulfonyl]-2-oxo-1-piperazinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

10/018,962



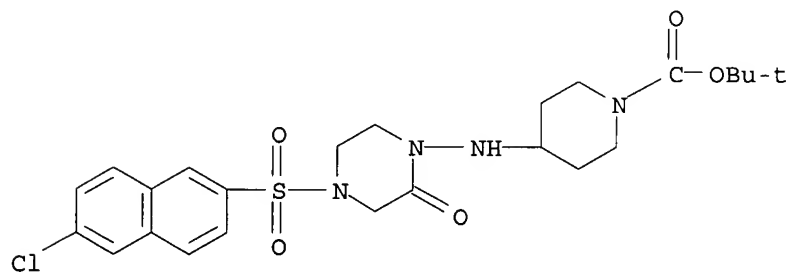
RN 315492-77-4 CAPLUS

CN Carbamic acid, [4-[(4-ethenylphenyl)sulfonyl]-2-oxo-1-piperazinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



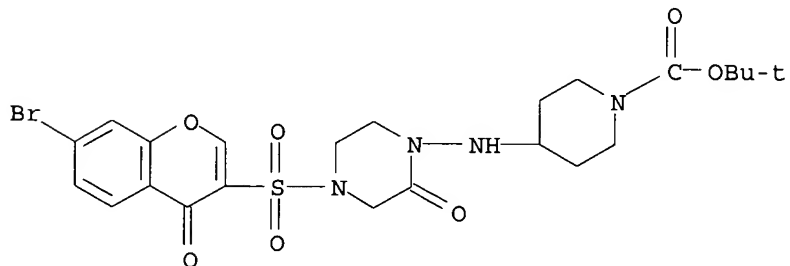
RN 315492-89-8 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 315493-13-1 CAPLUS

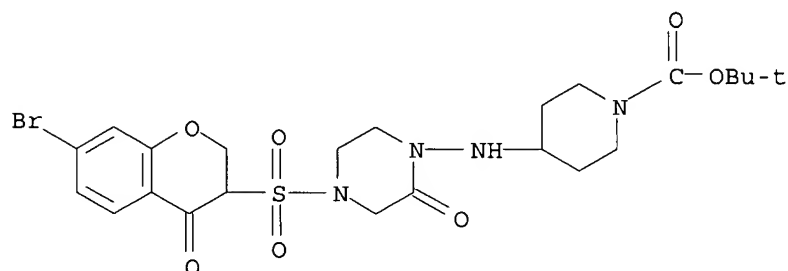
CN 1-Piperidinecarboxylic acid, 4-[[4-[(7-bromo-4-oxo-4H-1-benzopyran-3-yl)sulfonyl]-2-oxo-1-piperazinyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



10/018,962

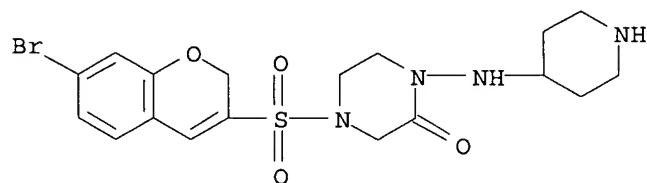
RN 315493-18-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[(7-bromo-3,4-dihydro-4-oxo-2H-1-benzopyran-3-yl)sulfonyl]-2-oxo-1-piperazinyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



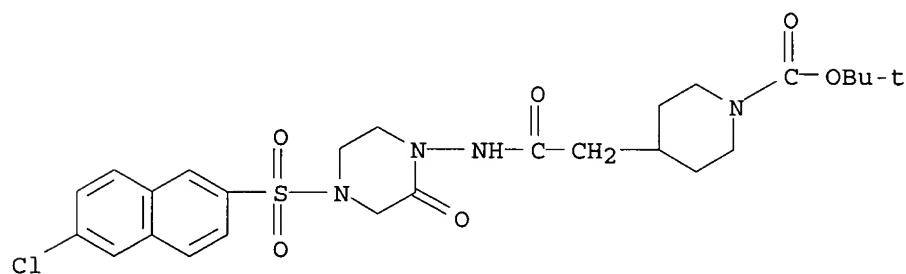
RN 315493-22-2 CAPLUS

CN Piperazinone, 4-[(7-bromo-2H-1-benzopyran-3-yl)sulfonyl]-1-(4-piperidinylamino)- (9CI) (CA INDEX NAME)



RN 315493-26-6 CAPLUS

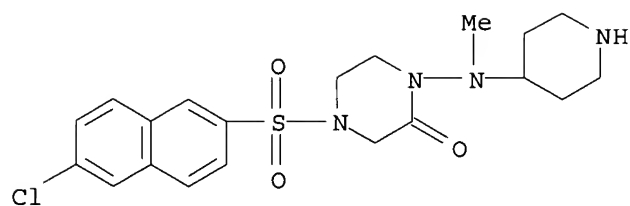
CN 1-Piperidinecarboxylic acid, 4-[2-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]amino]-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 315493-31-3 CAPLUS

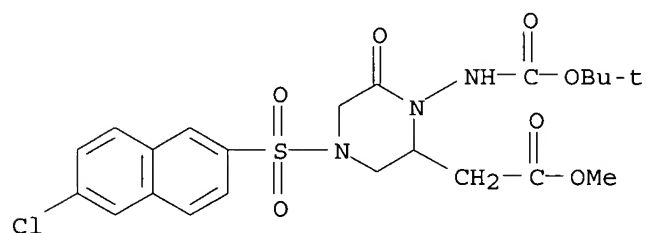
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-(methyl-4-piperidinylamino)- (9CI) (CA INDEX NAME)

10/018,962



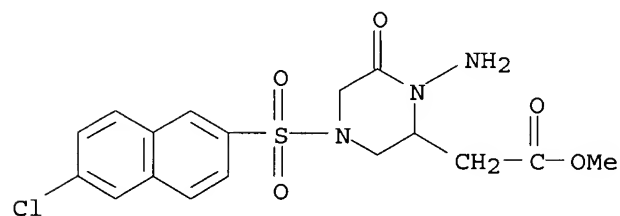
RN 315494-26-9 CAPLUS

CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[[(1,1-dimethylethoxy)carbonyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



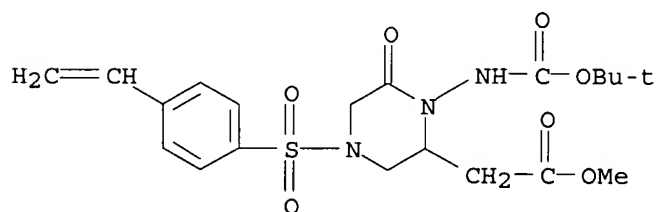
RN 315494-30-5 CAPLUS

CN 2-Piperazineacetic acid, 1-amino-4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



RN 315494-34-9 CAPLUS

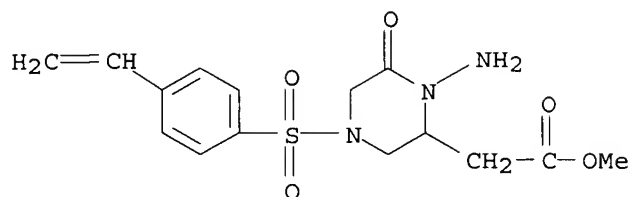
CN 2-Piperazineacetic acid, 1-[[[(1,1-dimethylethoxy)carbonyl]amino]-4-[(4-ethenylphenyl)sulfonyl]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



RN 315494-38-3 CAPLUS

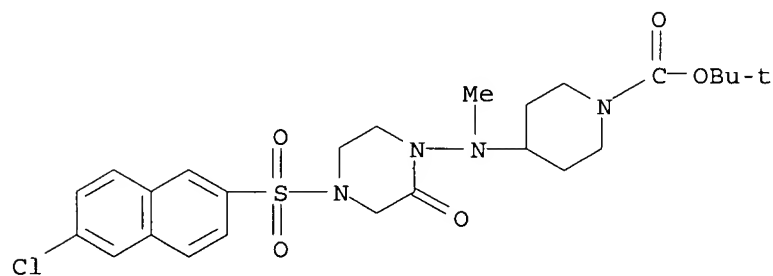
CN 2-Piperazineacetic acid, 1-amino-4-[(4-ethenylphenyl)sulfonyl]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)

10/018,962



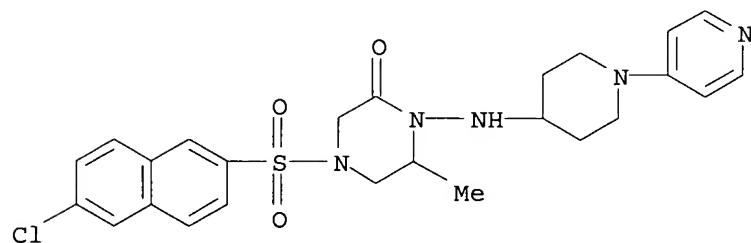
RN 315495-55-7 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]methylamino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



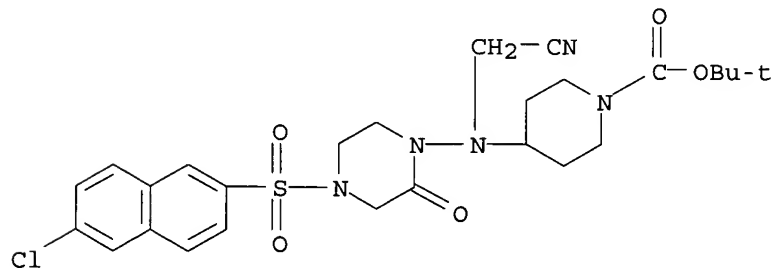
RN 315495-81-9 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-methyl-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315497-35-9 CAPLUS

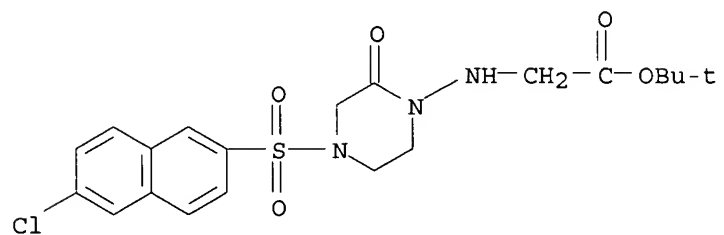
CN 1-Piperidinecarboxylic acid, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl](cyanomethyl)amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



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RN 315497-43-9 CAPLUS

CN Glycine, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

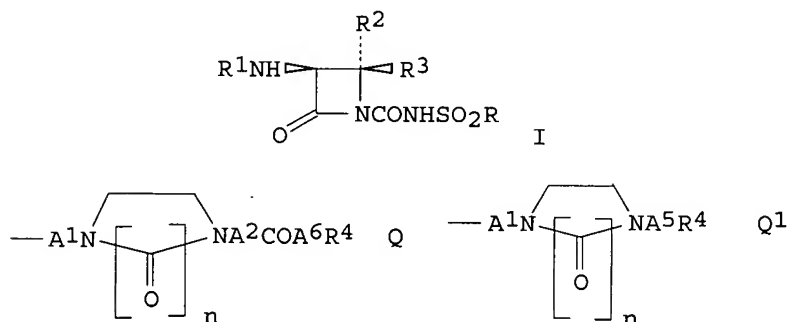




10/018,962

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS  
 AN 1988:422759 CAPLUS  
 DN 109:22759  
 TI 2-Oxo-1-[[[(substituted sulfonyl)amino]carbonyl]azetidines, procedure for  
 their preparation, and their use as antibacterials  
 IN Breuer, Hermann; Drossard, Jakob Matthias; Ermann, Peter Hans; Straub,  
 Henner; Treuner, Uwe Dietmar  
 PA Von Heyden G.m.b.H., Fed. Rep. Ger.  
 SO Eur. Pat. Appl., 86 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 251143	A1	19880107	EP 1987-108993	19870623
	EP 251143	B1	19920826		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	US 4801705	A	19890131	US 1986-877599	19860623
	ZA 8703710	A	19871230	ZA 1987-3710	19870522
	AU 8773489	A1	19871224	AU 1987-73489	19870528
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OS	CASREACT 109:22759; MARPAT 109:22759				
GI					



AB Azetidinones I [R = Q, Q1, NHA3R4, NHA4COA6R4; R1 = acyl; R2, R3 = H, aliph., cycloalkyl, (un)substituted Ph, heterocyclyl; one of R2 and R3 = H, the other = azido, (di)(tri)halomethyl, alkoxycarbonyl, etc.; R4 = (un)substituted o-(HO)2C6H3; A1 = bond, NHCO, NH, NHNHCO; A2 = bond,

CH<sub>2</sub>CH<sub>2</sub>NH, CONHNH; A<sub>3</sub> = (CH<sub>2</sub>)<sub>p</sub>, NHCONH, NHCONHCH<sub>2</sub>, NHCH<sub>2</sub>, OCH<sub>2</sub>, CH<sub>2</sub>CONH, CH<sub>2</sub>CONHCH<sub>2</sub>, N:CH, CH(CO<sub>2</sub>H); A<sub>4</sub> = NH, (CH<sub>2</sub>)<sub>p</sub>, (CH<sub>2</sub>)<sub>y</sub>NH, NHCONHNH, CONHNH, N(CH<sub>2</sub>X<sub>8</sub>); A<sub>5</sub> = (CH<sub>2</sub>)<sub>p</sub>, NHCH<sub>2</sub>, N:CH, CONH(CH<sub>2</sub>)<sub>q</sub>; A<sub>6</sub> = CH:CH, (CH<sub>2</sub>)<sub>p</sub>, NH(CH<sub>2</sub>)<sub>p</sub>, CH(NH<sub>2</sub>); p = 0-4; y = 2-4; q = 0, 1; n = 1, 2; X<sub>8</sub> = H, CO<sub>2</sub>H, CONH<sub>2</sub>] and their salts, useful as antibacterials in humans and mammalian animals (no data), were prepd. 1-Amino-2-imidazolidinone was acylated with 3,4-bis(acetyloxy)benzoyl chloride to give the corresponding di-O-acylated amine which was successively silylated with N-methyl-N-trimethylsilyltrifluoroacetamide and treated with phenylmethyl (S)-[1-[[[(chlorosulfonyl)amino]carbonyl]-2-oxo-3-azetidinyll]carbamate to give phenylmethyl (S)-[1-[[[[3-[[3,4-bis(acetyloxy)benzoyl]amino]-2-oxo-1-imidazolidinyl]sulfonyl]amino]carbonyl]-2-oxo-3-azetidinyll]carbamate. Successive treatment with NH<sub>4</sub>OAc, 2N HCl, and F<sub>3</sub>CCO<sub>2</sub>H-PhSMe gave (S)-3-amino-N-[[3-[(3,4-dihydroxybenzoyl)amino]-2-oxo-1-imidazolidinyl]sulfonyl]-2-oxo-1-azetidinyllcarboxamide trifluoroacetate salt. The latter compd. was reacted with (Z)-2-amino-α-(methoxyimino)-4-thiazoleacetic acid N-hydroxybenzotriazole ester, then NaHCO<sub>3</sub> to give (S)-2-amino-N-[[1-[[[[3-[(3,4-dihydroxybenzoyl)amine]-2-oxo-1-imidazolidinyl]sulfonyl]amino]carbonyl]-2-oxo-2-azetidinyll]-α-(methoxyimino)-4-thiazoleacetamide NET<sub>3</sub> salt (1:1).

IT 114874-95-2P 114874-97-4P 114874-98-5P

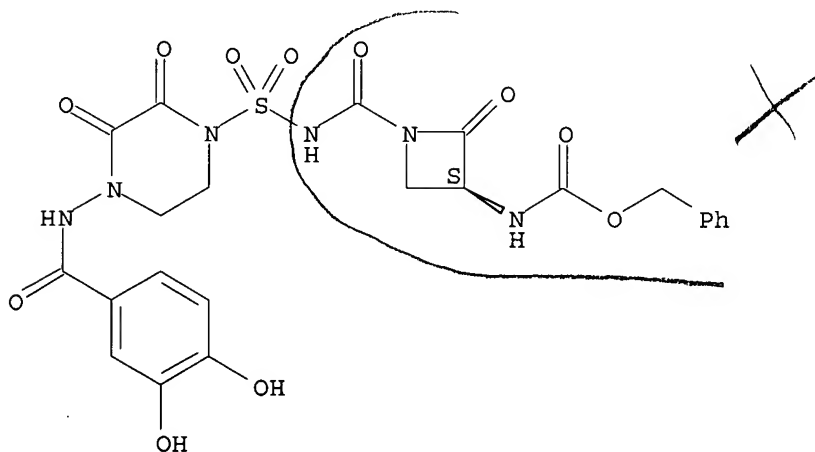
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction of, in synthesis of azetidinone antibacterials)

RN 114874-95-2 CAPLUS

CN Carbamic acid, [1-[[[[4-[(3,4-dihydroxybenzoyl)amino]-2,3-dioxo-1-piperazinyl]sulfonyl]amino]carbonyl]-2-oxo-3-azetidinyll]-, phenylmethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 114874-97-4 CAPLUS

CN 1-Azetidinecarboxamide, 3-amino-N-[[4-[(3,4-dihydroxybenzoyl)amino]-2,3-dioxo-1-piperazinyl]sulfonyl]-2-oxo-, (S)-, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

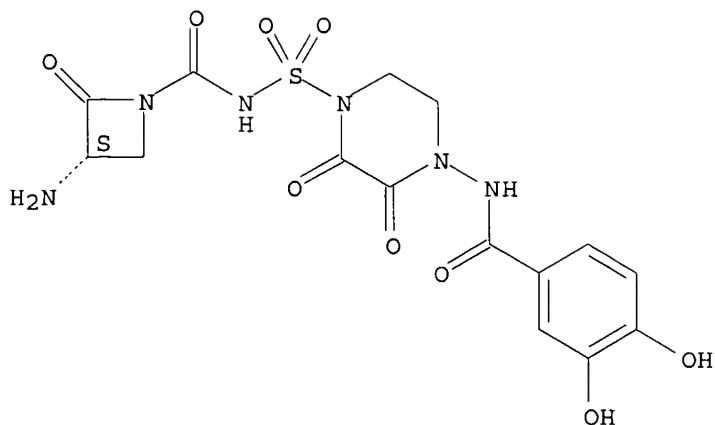
CM 1

CRN 114874-96-3

CMF C15 H16 N6 O9 S

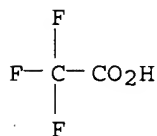
Absolute stereochemistry.

10/018,962



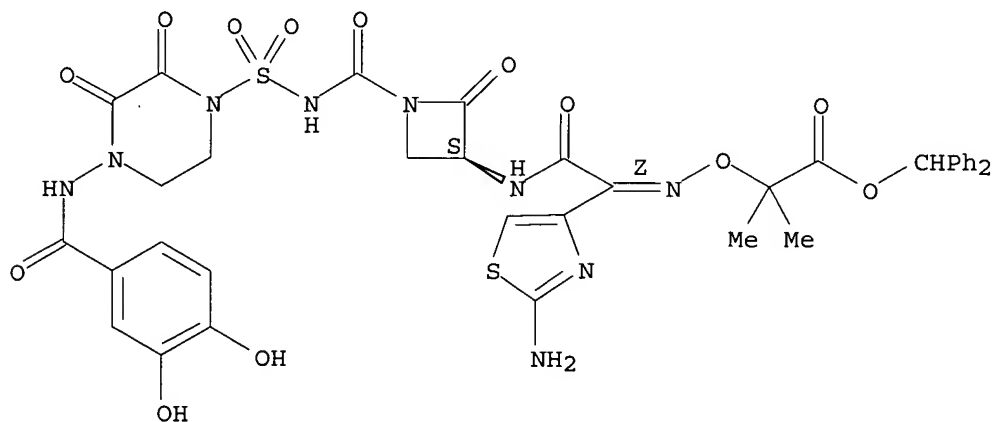
CM 2

CRN 76-05-1  
CMF C2 H F3 O2



RN 114874-98-5 CAPLUS  
CN Propanoic acid, 2-[[[1-(2-amino-4-thiazolyl)-2-[[1-[[[4-[(3,4-dihydroxybenzoyl)amino]-2,3-dioxo-1-piperazinyl]sulfonyl]amino]carbonyl]-2-oxo-3-azetidinyl]amino]-2-oxoethylidene]amino]oxy]-2-methyl-, diphenylmethyl ester, [S-(Z)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.



IT 114830-68-1P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological

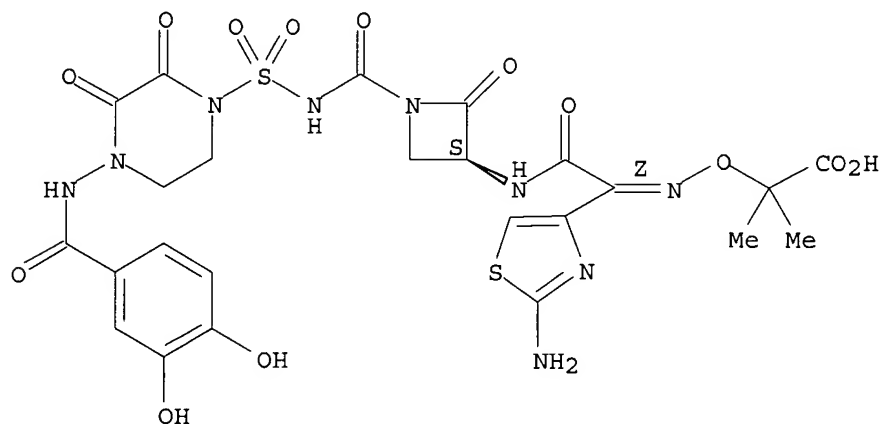
10/018,962

study); PREP (Preparation)  
(prepn. of, as antibacterial)

RN 114830-68-1 CAPLUS

CN Propanoic acid, 2-[[[1-(2-amino-4-thiazolyl)-2-[[1-[[[4-[(3,4-dihydroxybenzoyl)amino]-2,3-dioxo-1-piperazinyl]sulfonyl]amino]carbonyl]-2-oxo-3-azetidinyl]amino]-2-oxoethylidene]amino]oxy]-2-methyl-, disodium salt, [S-(Z)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.



⊕2 Na

10/018,962

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS  
AN 1988:55763 CAPLUS  
DN 108:55763  
TI Preparation of N-substituted azetidinone derivatives as antibiotics  
PA Squibb, E. R., and Sons, Inc., USA  
SO Belg., 173 pp.  
CODEN: BEXXAL  
DT Patent  
LA French  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 905502	A1	19870116	BE 1986-217217	19860926
	US 4743685	A	19880510	US 1986-907441	19860915
	FR 2587700	A1	19870327	FR 1986-13466	19860926
	FR 2587700	B1	19880916		
	SE 8604089	A	19870327	SE 1986-4089	19860926
	DK 8604603	A	19870327	DK 1986-4603	19860926
	FI 8603890	A	19870327	FI 1986-3890	19860926
	NO 8603837	A	19870327	NO 1986-3837	19860926
	DE 3632876	A1	19870402	DE 1986-3632876	19860926
	AU 8663156	A1	19870402	AU 1986-63156	19860926
	AU 600912	B2	19900830		
	CN 86106980	A	19870408	CN 1986-106980	19860926
	GB 2181130	A1	19870415	GB 1986-23151	19860926
	GB 2181130	B2	19890920		
	NL 8602446	A	19870416	NL 1986-2446	19860926
	JP 62084082	A2	19870417	JP 1986-229474	19860926
	ZA 8607373	A	19870527	ZA 1986-7373	19860926
	DD 250121	A5	19870930	DD 1986-295013	19860926
	HU 44535	A2	19880328	HU 1986-4124	19860926
	HU 198044	B	19890728		
	ES 2001995	A6	19880701	ES 1986-2204	19860926
	CH 670828	A	19890714	CH 1986-3860	19860926
	PL 151546	B1	19900928	PL 1986-261575	19860926
	IL 80160	A1	19910415	IL 1986-80160	19860926
	CA 1308719	A1	19921013	CA 1986-519170	19860926
PRAI	US 1985-780479		19850926		
OS	CASREACT 108:55763				
GI					

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title compds. I [R = Q1, Q2, etc., wherein A1 = single bond, NHCO, NH, NHNHCO, A2 = single bond, NH, (CH2)2NH, CONHNH, A3 = single bond, CH:CH, (CH2)n (n = 1-4); R1 = acyl; R2, R3 = H, alkyl, alkenyl, alkynyl, cycloalkyl, (un)substituted Ph, heterocyclyl, or one of R2 and R3 is H, the other is N3, halomethyl, dihalomethyl, alkoxycarbonyl, 2-phenylethenyl, etc.], useful as antibiotics (no data), were prepd. Azetidinone deriv. (S)-II (R1 = PhCH2OCO, R2 = R3 = H) was treated with ClSO2NCO to give (chlorosulfonyl)aminocarbonylazetidinone deriv. (S)-I (R1 = PhCH2OCO, R2 = R3 = H, R = Cl) (III). To a soln. of III in EtOAc was added a mixt. of 1,4-dihydro-5-hydroxy-4-oxo-N-(2-oxo-1-imidazolidinyl)-2-pyridinecarboxamide and CF3CON(SiMe3)Me in EtOAc. Following addn. of CH2Cl2, the mixt. was stirred overnight at room temp. to give the corresponding imidazolidinylsulfonylaminocarbonylazetidinone deriv., which was deprotected with PhMe/CF3CO2H and subsequently acylated with

(Z)-2-amino-.alpha.-[[2-(diphenylmethoxy)-1,1-dimethyl-2-oxoethoxy]imino]-4-thiazoleacetic acid to give IV (R4 = Ph2CH). IV was then deprotected with PhOMe/CF3CO2H to give, after workup, azetidinone deriv. IV.2Na (R4 = H).

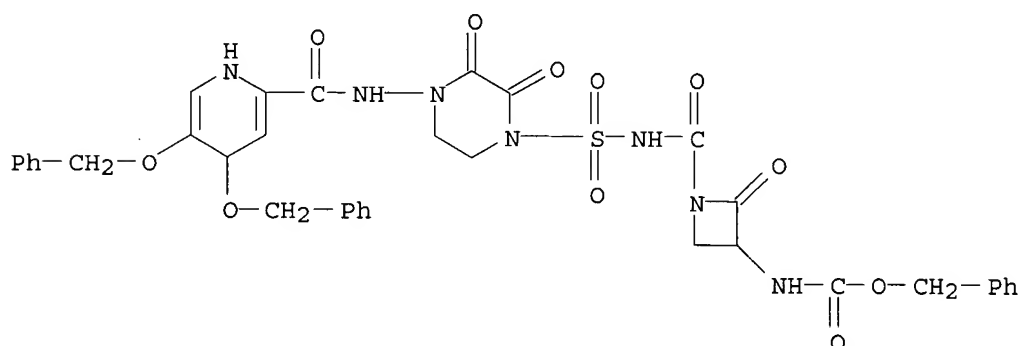
IT 112334-48-2P 112334-49-3P 112334-50-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction of, in synthesis of antibiotic)

RN 112334-48-2 CAPLUS

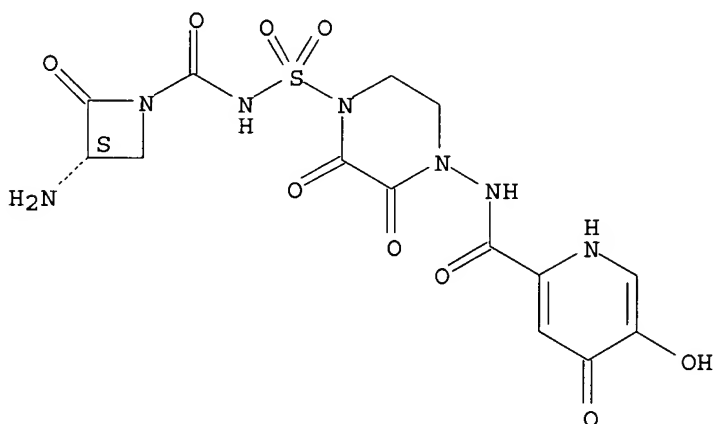
CN Carbamic acid, [1-[[[4-[[[1,4-dihydro-4,5-bis(phenylmethoxy)-2-pyridinyl]carbonyl]amino]-2,3-dioxo-1-piperazinyl]sulfonyl]amino]carbonyl]-2-oxo-3-azetidinyl]-, phenylmethyl ester, (S)- (9CI) (CA INDEX NAME)



RN 112334-49-3 CAPLUS

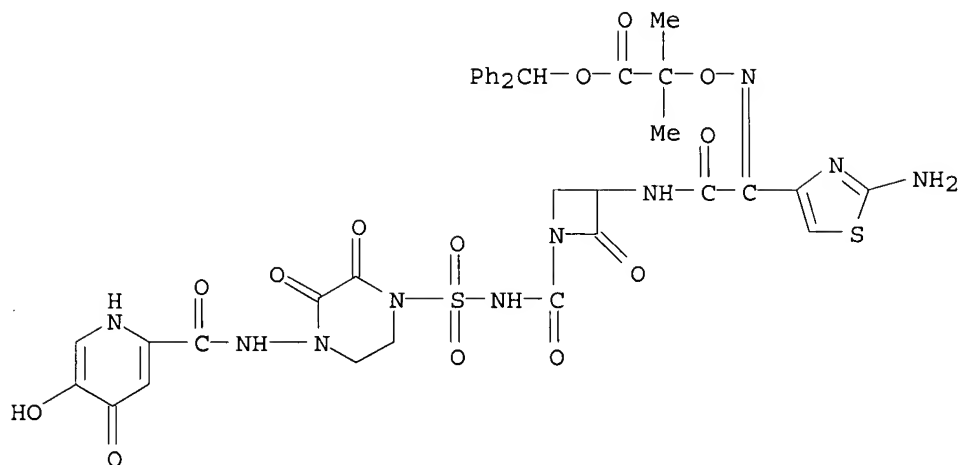
CN 2-Pyridinecarboxamide, N-[4-[[[3-amino-2-oxo-1-azetidinyl]carbonyl]amino]sulfonyl]-2,3-dioxo-1-piperazinyl]-1,4-dihydro-5-hydroxy-4-oxo-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 112334-50-6 CAPLUS

CN Propanoic acid, 2-[[[1-(2-amino-4-thiazolyl)-2-[[1-[[[4-[[[1,4-dihydro-5-hydroxy-4-oxo-2-pyridinyl]carbonyl]amino]-2,3-dioxo-1-piperazinyl]sulfonyl]amino]carbonyl]-2-oxo-3-azetidinyl]amino]-2-oxoethylidene]amino]oxy]-2-methyl-, diphenylmethyl ester, [S-(Z)]- (9CI) (CA INDEX NAME)

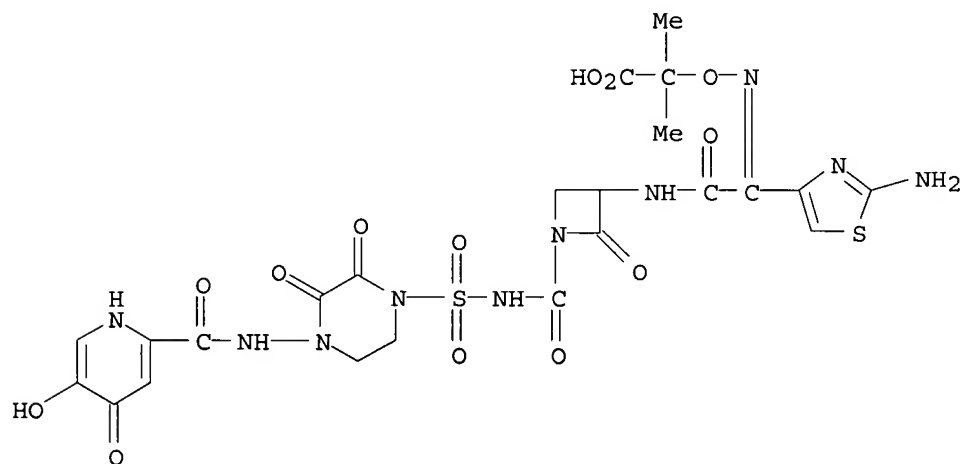


## IT 112354-76-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(prepn. of, as antibiotic)

RN 112354-76-4 CAPLUS

CN Propanoic acid, 2-[[[1-(2-amino-4-thiazolyl)-2-[[1-[[[4-[(1,4-dihydro-5-hydroxy-4-oxo-2-pyridinyl)carbonyl]amino]-2,3-dioxo-1-piperazinyl]sulfonyl]amino]carbonyl]-2-oxo-3-azetidiny]amino]-2-oxoethylidene]amino]oxy]-2-methyl-, disodium salt, [S-(Z)]- (9CI) (CA INDEX NAME)

O<sub>2</sub> Na

## IT 112334-49-3

RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, in synthesis of antibiotic)

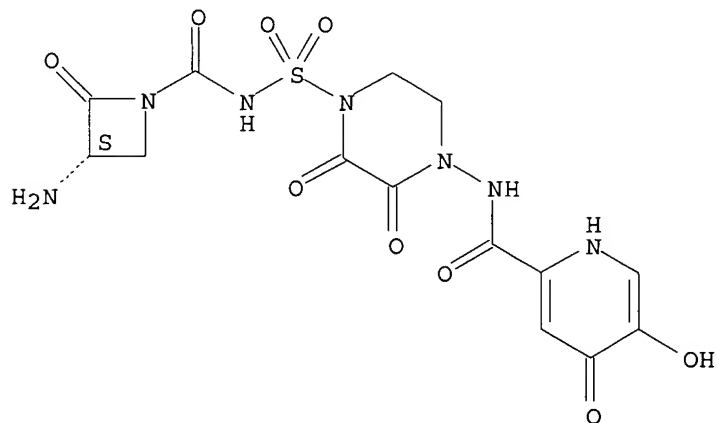
RN 112334-49-3 CAPLUS

CN 2-Pyridinecarboxamide, N-[4-[[[3-amino-2-oxo-1-

10/018,962

azetidiny]carbonyl]amino]sulfonyl]-2,3-dioxo-1-piperazinyl]-1,4-dihydro-5-hydroxy-4-oxo-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





10/018,962

=> file caold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
18.98	186.64

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-2.60	-2.60

CA SUBSCRIBER PRICE

FILE 'CAOLD' ENTERED AT 13:15:45 ON 22 APR 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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L5 0 L3

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.40	187.04

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-2.60

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 13:15:54 ON 22 APR 2003

10/018,962

=>

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L1           STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 13:13:43 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED -       14 TO ITERATE

100.0% PROCESSED           14 ITERATIONS

10 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   \*\*COMPLETE\*\*

BATCH   \*\*COMPLETE\*\*

PROJECTED ITERATIONS:       56 TO       504

PROJECTED ANSWERS:           11 TO       389

L2           10 SEA SSS SAM L1

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10/018,962

ALL  
STRUCTURES  
IN APPS WO.

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:911242 CAPLUS  
DN 134:71607  
TI Preparation and effect of acylhydrazine derivatives as activated blood  
coagulation factor X inhibitors  
IN Itoh, Fumio; Hosono, Hiroshi; Kawamura, Masaki; Kubo, Keiji  
PA Takeda Chemical Industries, Ltd., Japan  
SO PCT Int. Appl., 202 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000078747	A1	20001228	WO 2000-JP4034	20000621 <--
	W:	AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	EP 1188755	A1	20020320	EP 2000-940768	20000621
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	JP 2001278882	A2	20011010	JP 2000-192697	20000622
PRAI	JP 1999-176057	A	19990622		
	JP 1999-266280	A	19990920		
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	WO 2000-JP4034	W	20000621		

OS MARPAT 134:71607

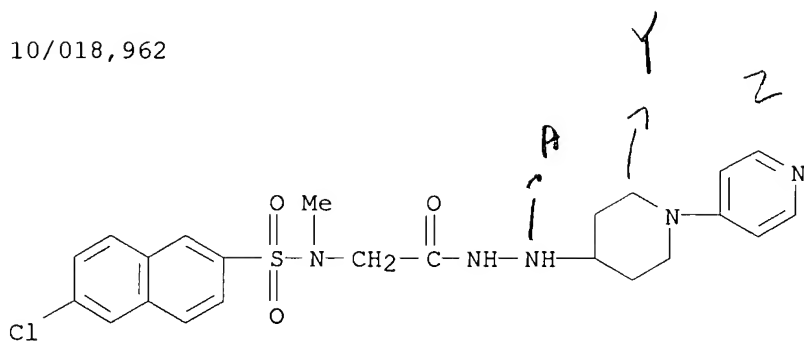
IT 315485-88-2P 315485-92-8P 315485-97-3P  
315486-01-2P 315486-05-6P 315486-09-0P  
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315486-53-4P 315487-28-6P 315487-55-9P  
315487-63-9P 315487-91-3P 315487-95-7P  
315488-04-1P 315488-08-5P 315488-19-8P  
315488-43-8P 315488-61-0P 315489-18-0P  
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315489-80-6P 315490-36-9P 315490-40-5P  
315490-50-7P 315490-80-3P 315491-09-9P  
315491-14-6P 315491-18-0P 315491-22-6P  
315491-45-3P 315491-57-7P 315491-83-9P  
315495-89-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

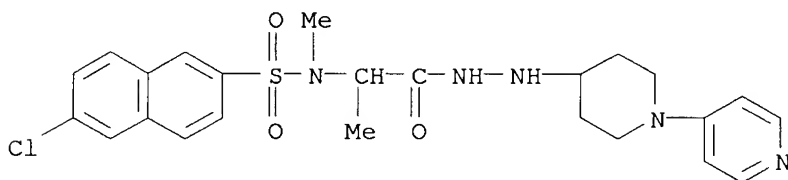
(prepn. and effect of acylhydrazine derivs. as activated blood coagulation factor X inhibitors)

RN 315485-88-2 CAPLUS

CN Glycine, N-[(6-chloro-2-naphthalenyl)sulfonyl]-N-methyl-,  
2-[1-(4-pyridinyl)-4-piperidinyl]hydrazide (9CI) (CA INDEX NAME)

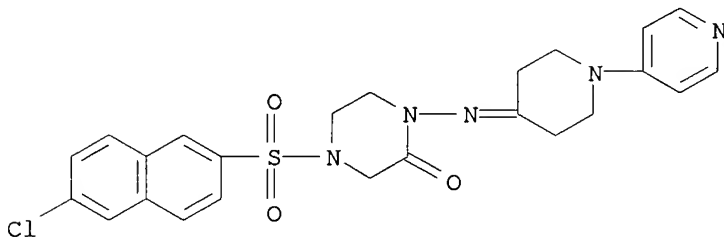


RN 315485-92-8 CAPLUS

CN Alanine, N-[(6-chloro-2-naphthalenyl)sulfonyl]-N-methyl-,  
2-[1-(4-pyridinyl)-4-piperidinyl]hydrazide (9CI) (CA INDEX NAME)

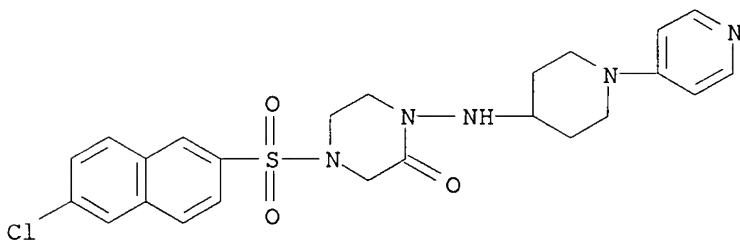
RN 315485-97-3 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinylidene]amino]- (9CI) (CA INDEX NAME)



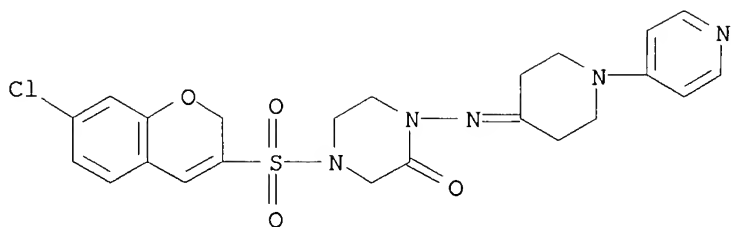
RN 315486-01-2 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



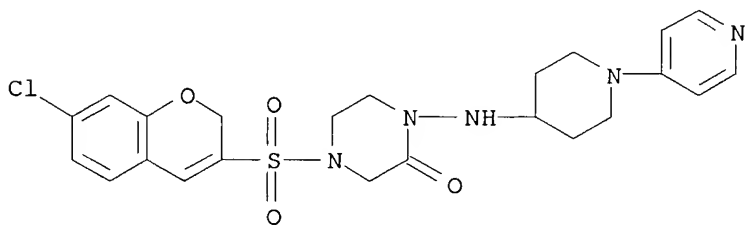
RN 315486-05-6 CAPLUS

CN Piperazinone, 4-[(7-chloro-2H-1-benzopyran-3-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinylidene]amino]- (9CI) (CA INDEX NAME)



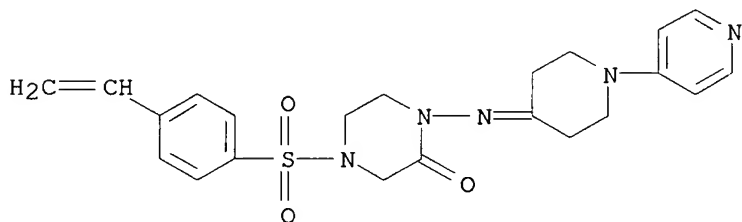
RN 315486-09-0 CAPLUS

CN Piperazinone, 4-[(7-chloro-2H-1-benzopyran-3-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



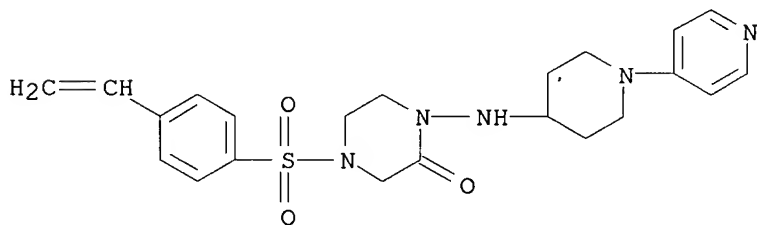
RN 315486-27-2 CAPLUS

CN Piperazinone, 4-[(4-ethenylphenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinylidene]amino]- (9CI) (CA INDEX NAME)



RN 315486-31-8 CAPLUS

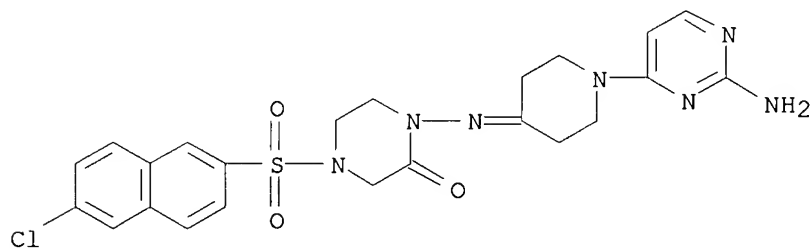
CN Piperazinone, 4-[(4-ethenylphenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315486-41-0 CAPLUS

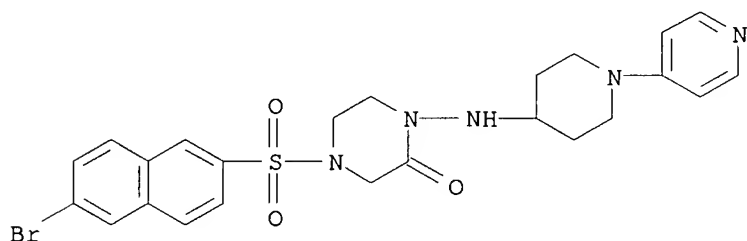
10/018,962

CN Piperazinone, 1-[[1-(2-amino-4-pyrimidinyl)-4-piperidinylidene]amino]-4-  
[(6-chloro-2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)



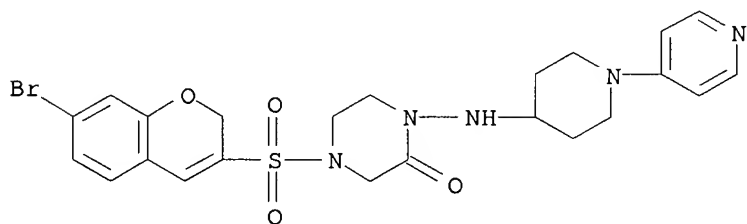
RN 315486-53-4 CAPLUS

CN Piperazinone, 4-[(6-bromo-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-  
piperidinyl]amino]- (9CI) (CA INDEX NAME)



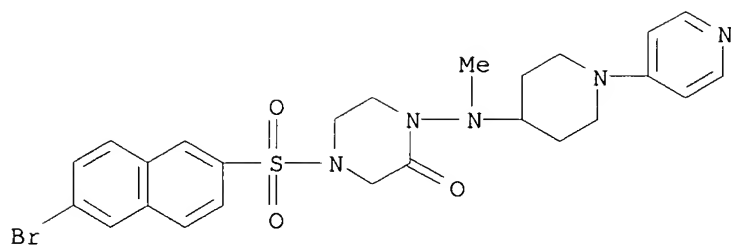
RN 315487-28-6 CAPLUS

CN Piperazinone, 4-[(7-bromo-2H-1-benzopyran-3-yl)sulfonyl]-1-[[1-(4-  
pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



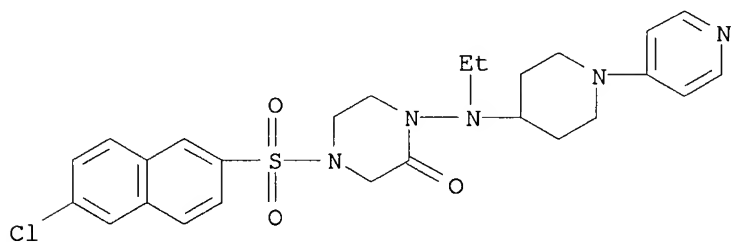
RN 315487-55-9 CAPLUS

CN Piperazinone, 4-[(6-bromo-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-  
pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



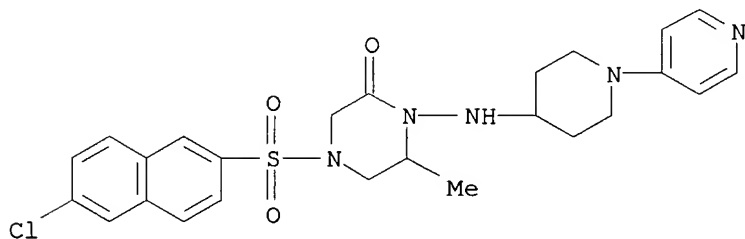
RN 315487-63-9 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[ethyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315487-91-3 CAPLUS

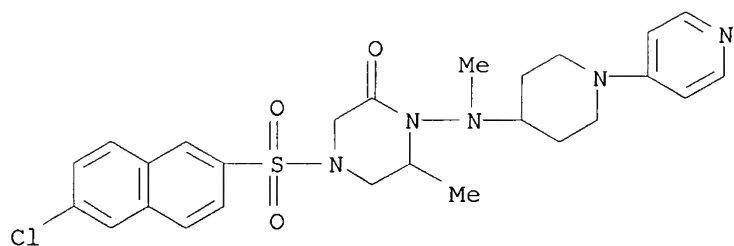
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-methyl-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

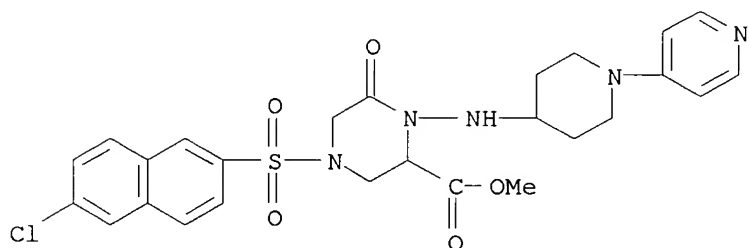
RN 315487-95-7 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-methyl-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315488-04-1 CAPLUS

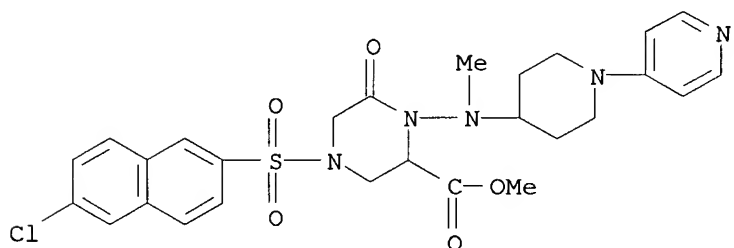
CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, methyl ester, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

RN 315488-08-5 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

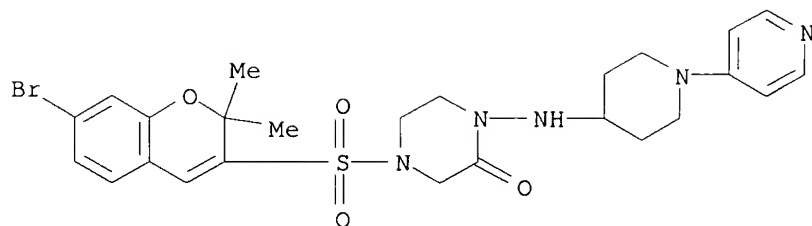


O HCl

RN 315488-19-8 CAPLUS

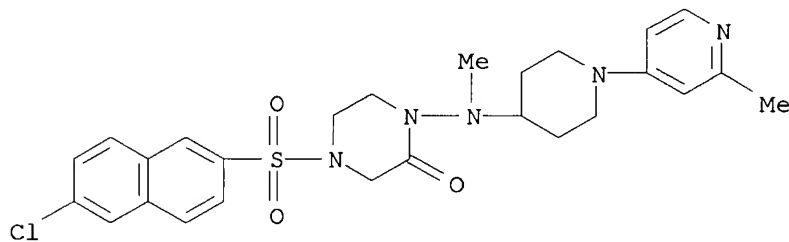
CN Piperazinone, 4-[(7-bromo-2,2-dimethyl-2H-1-benzopyran-3-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)





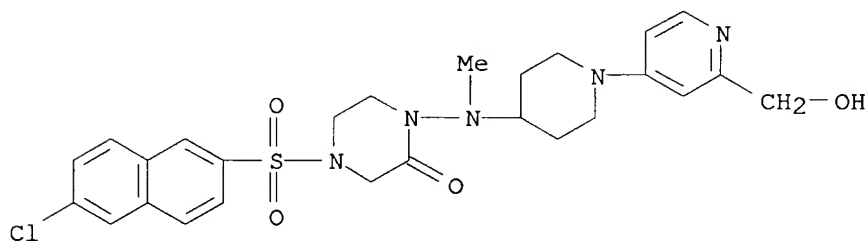
RN 315488-43-8 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315488-61-0 CAPLUS

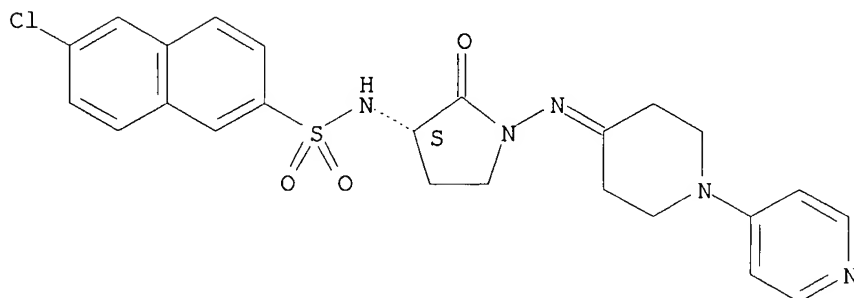
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(hydroxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)



RN 315489-18-0 CAPLUS

CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-2-oxo-1-[[1-(4-pyridinyl)-4-piperidinylidene]amino]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

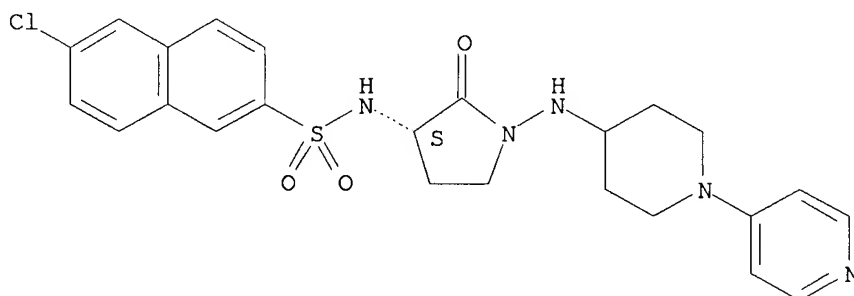
Absolute stereochemistry.



RN 315489-22-6 CAPLUS

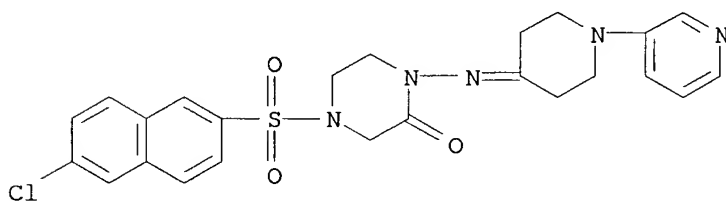
CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-2-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



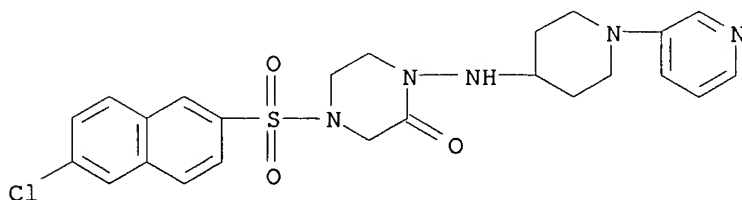
RN 315489-68-0 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(3-pyridinyl)-4-piperidinylidene]amino]- (9CI) (CA INDEX NAME)



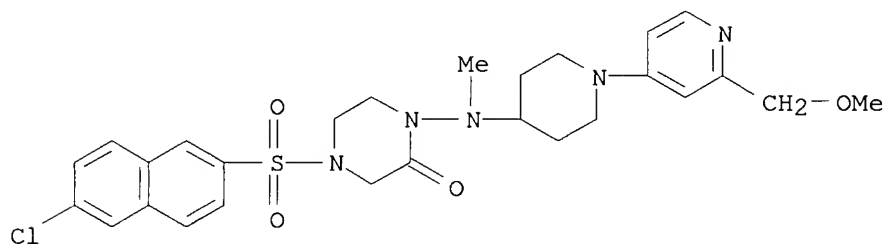
RN 315489-72-6 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(3-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



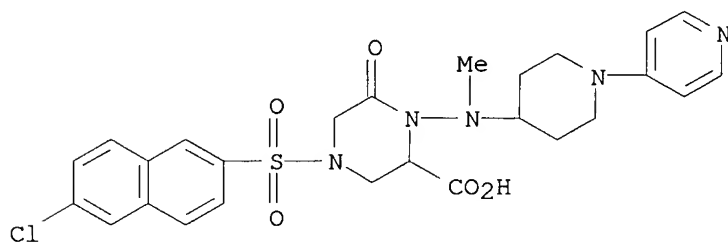
RN 315489-80-6 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(methoxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)



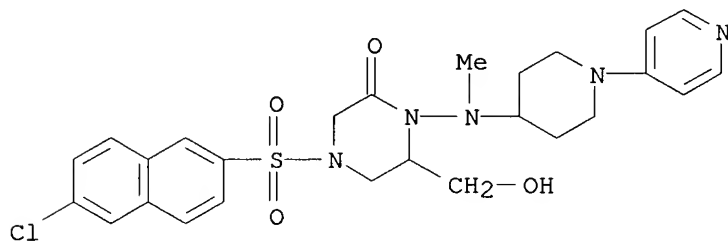
RN 315490-36-9 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo- (9CI) (CA INDEX NAME)



RN 315490-40-5 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-(hydroxymethyl)-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



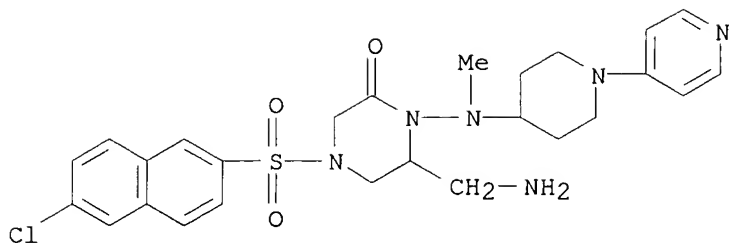
O HCl

RN 315490-50-7 CAPLUS

CN Piperazinone, 6-(aminomethyl)-4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)

10/018,962

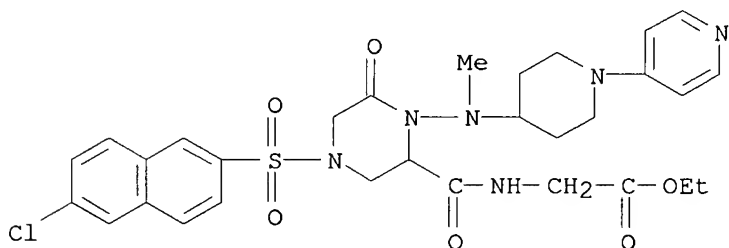
INDEX NAME)



O2 HCl

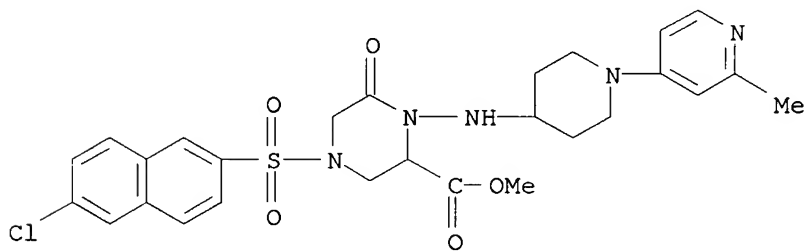
RN 315490-80-3 CAPLUS

CN Glycine, N-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 315491-09-9 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester, dihydrochloride (9CI) (CA INDEX NAME)

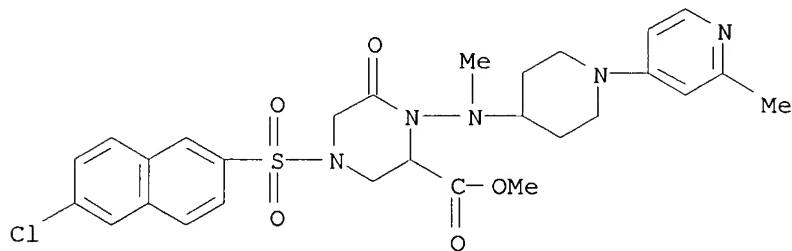


O2 HCl

RN 315491-14-6 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-

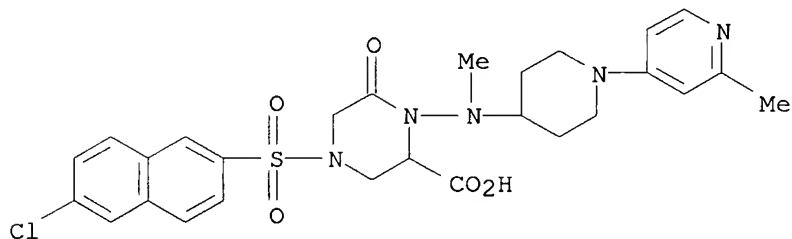
[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)



○ HCl

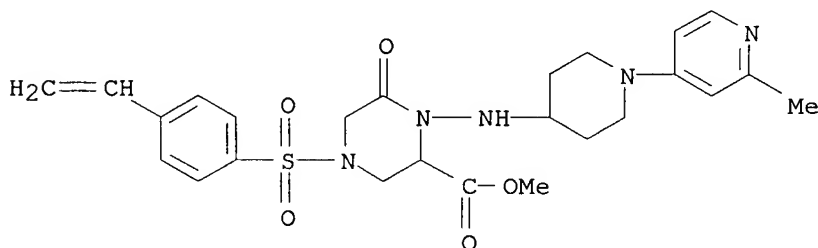
RN 315491-18-0 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo- (9CI) (CA INDEX NAME)



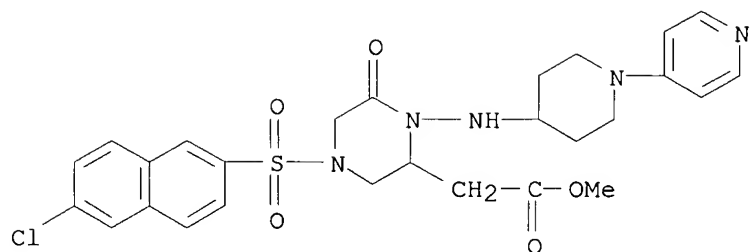
RN 315491-22-6 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(4-ethenylphenyl)sulfonyl]-1-[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



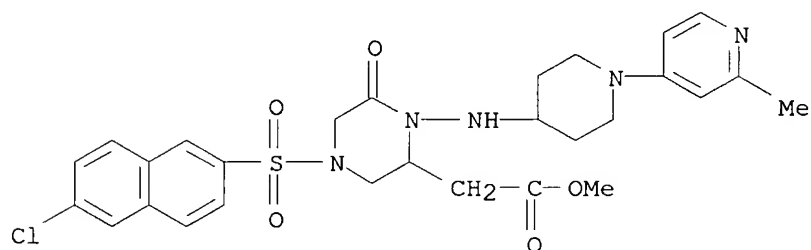
RN 315491-45-3 CAPLUS

CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-oxo-1-[1-(4-pyridinyl)-4-piperidinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



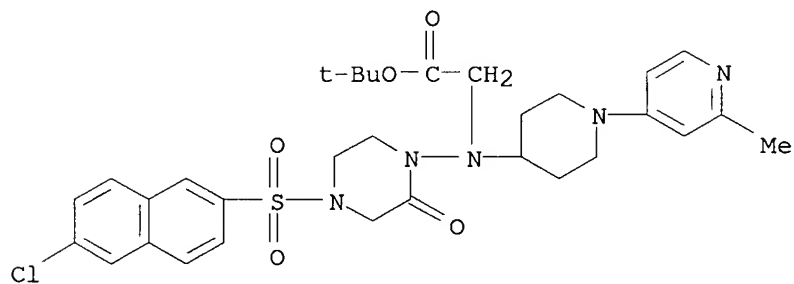
RN 315491-57-7 CAPLUS

CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



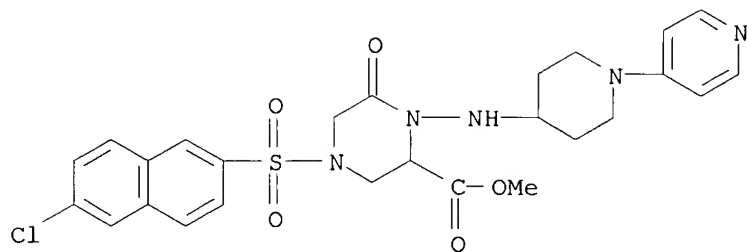
RN 315491-83-9 CAPLUS

CN Glycine, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-N-[1-(2-methyl-4-pyridinyl)-4-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 315495-89-7 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

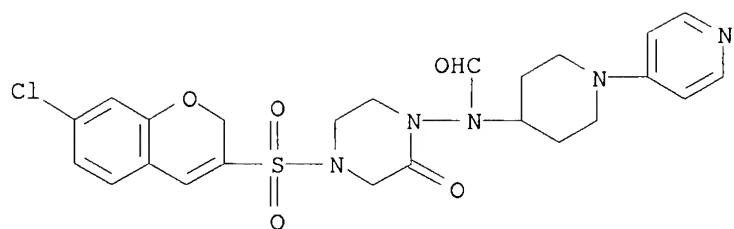


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 315486-57-8P 315486-61-4P 315486-68-1P  
 315486-72-7P 315486-76-1P 315486-80-7P  
 315486-84-1P 315486-88-5P 315486-92-1P  
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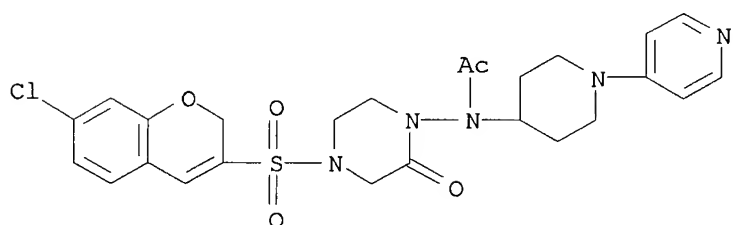
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. and effect of acylhydrazine derivs. as activated blood coagulation factor X inhibitors)

RN 315486-14-7 CAPLUS

CN Piperazinone, 4-[(7-chloro-2H-1-benzopyran-3-yl)sulfonyl]-1-[formyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

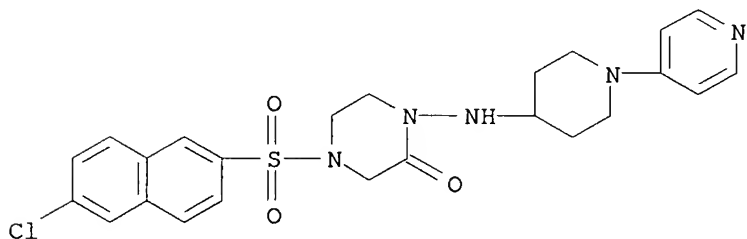


RN 315486-18-1 CAPLUS  
 CN Acetamide, N-[4-[(7-chloro-2H-1-benzopyran-3-yl)sulfonyl]-2-oxo-1-piperazinyl]-N-[1-(4-pyridinyl)-4-piperidinyl]-, monohydrochloride (9CI)  
 (CA INDEX NAME)



● HCl

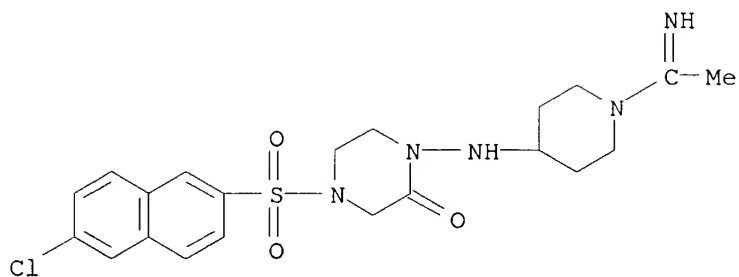
RN 315486-23-8 CAPLUS  
 CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

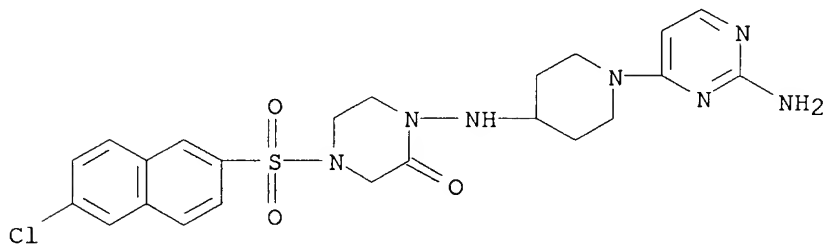
RN 315486-36-3 CAPLUS  
 CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(1-iminoethyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



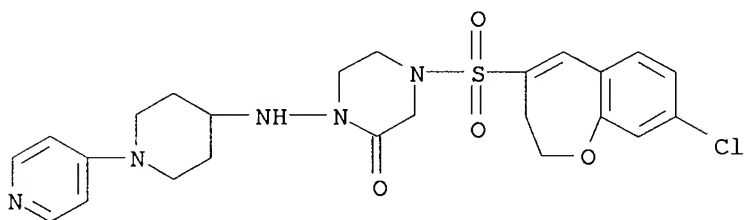


○ HCl

RN 315486-45-4 CAPLUS  
 CN Piperazinone, 1-[[1-(2-amino-4-pyrimidinyl)-4-piperidinyl]amino]-4-[(6-chloro-2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)

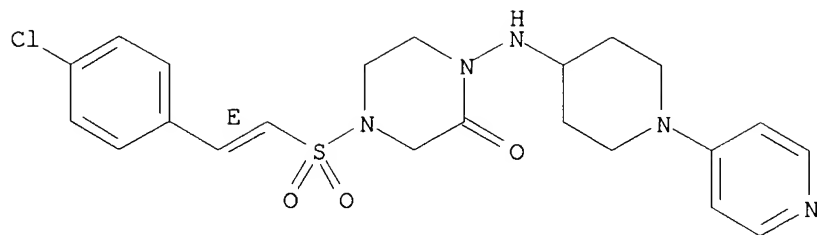


RN 315486-49-8 CAPLUS  
 CN Piperazinone, 4-[(8-chloro-2,3-dihydro-1-benzoxepin-4-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



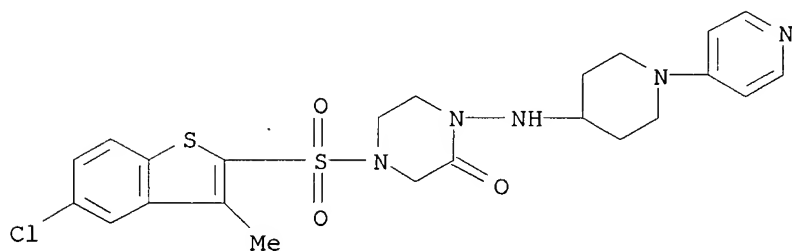
RN 315486-57-8 CAPLUS  
 CN Piperazinone, 4-[[[(1E)-2-(4-chlorophenyl)ethenyl]sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



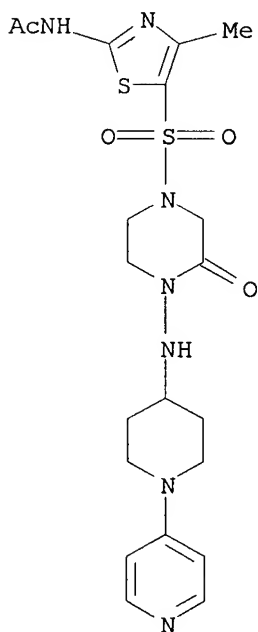
RN 315486-61-4 CAPLUS

CN Piperazinone, 4-[(5-chloro-3-methylbenzo[b]thien-2-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315486-68-1 CAPLUS

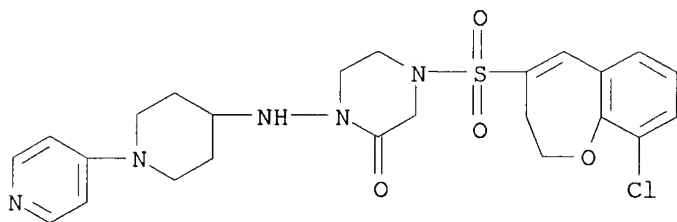
CN Acetamide, N-[4-methyl-5-[[3-oxo-4-[[1-(4-pyridinyl)-4-piperidinyl]amino]-1-piperazinyl]sulfonyl]-2-thiazolyl]- (9CI) (CA INDEX NAME)



RN 315486-72-7 CAPLUS

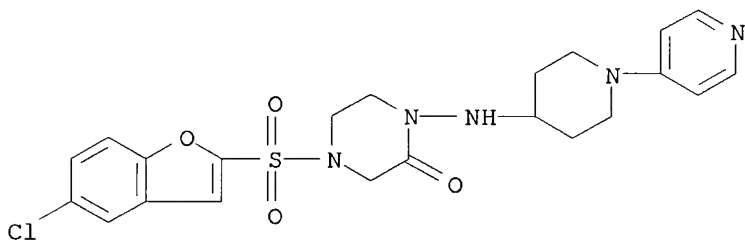
CN Piperazinone, 4-[(9-chloro-2,3-dihydro-1-benzoxepin-4-yl)sulfonyl]-1-[[1-

(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



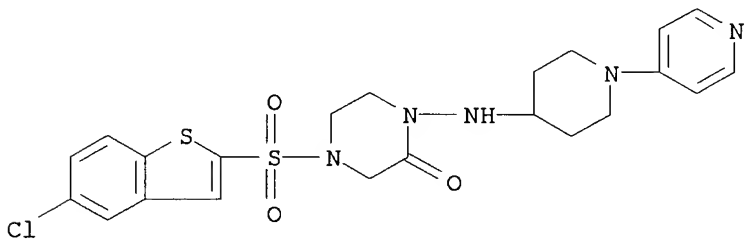
RN 315486-76-1 CAPLUS

CN Piperazinone, 4-[(5-chloro-2-benzofuranyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



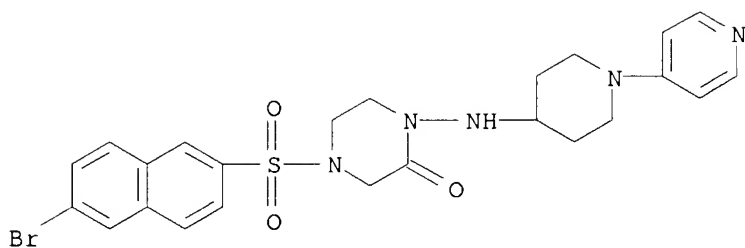
RN 315486-80-7 CAPLUS

CN Piperazinone, 4-[(5-chlorobenzo[b]thien-2-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



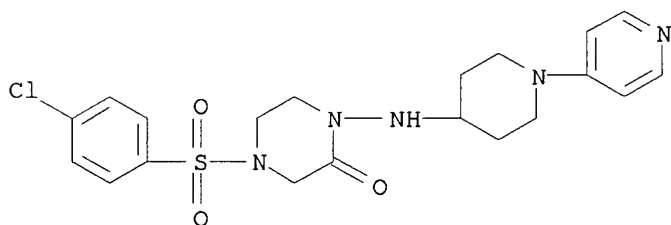
RN 315486-84-1 CAPLUS

CN Piperazinone, 4-[(6-bromo-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)

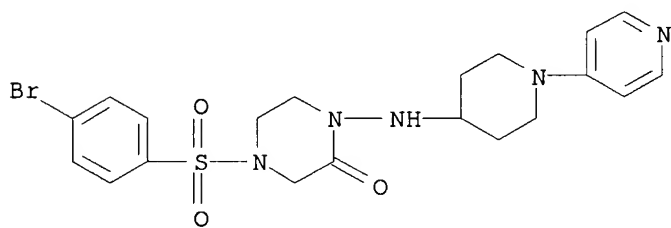


O2 HCl

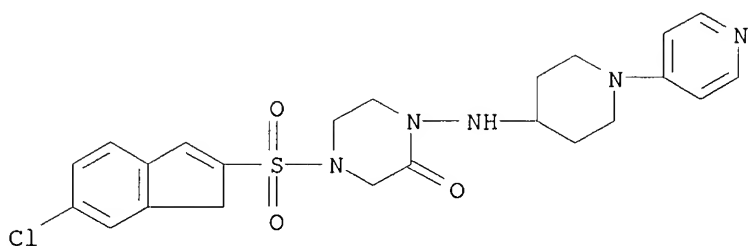
RN 315486-88-5 CAPLUS  
CN Piperazinone, 4-[(4-chlorophenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315486-92-1 CAPLUS  
CN Piperazinone, 4-[(4-bromophenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

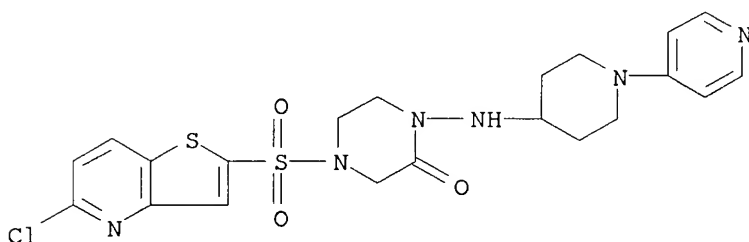


RN 315486-96-5 CAPLUS  
CN Piperazinone, 4-[(6-chloro-1H-inden-2-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



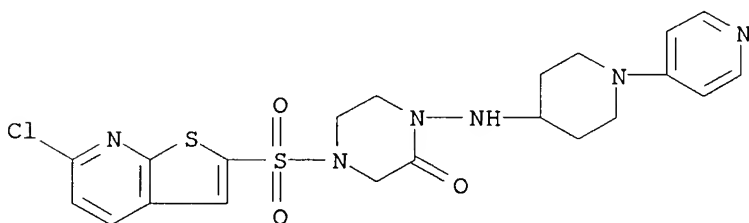
RN 315487-00-4 CAPLUS

CN Piperazinone, 4-[(5-chlorothieno[3,2-b]pyridin-2-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315487-04-8 CAPLUS

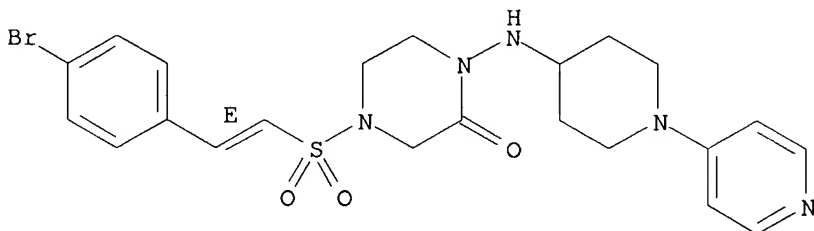
CN Piperazinone, 4-[(6-chlorothieno[2,3-b]pyridin-2-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315487-07-1 CAPLUS

CN Piperazinone, 4-[(1E)-2-(4-bromophenyl)ethenylsulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

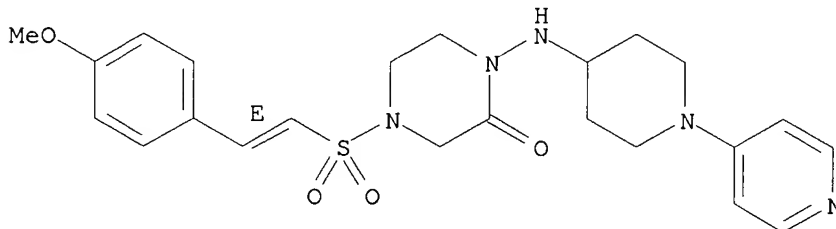
Double bond geometry as shown.



RN 315487-11-7 CAPLUS

CN Piperazinone, 4-[[ (1E)-2-(4-methoxyphenyl)ethenyl]sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

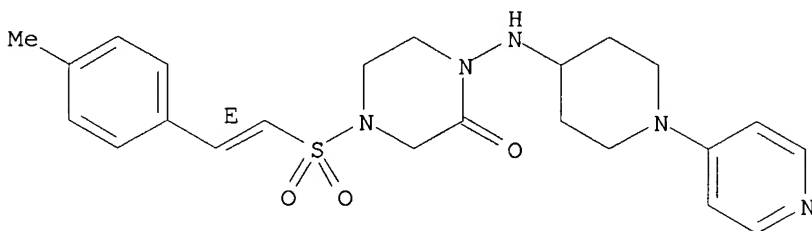
Double bond geometry as shown.



RN 315487-15-1 CAPLUS

CN Piperazinone, 4-[[ (1E)-2-(4-methylphenyl)ethenyl]sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

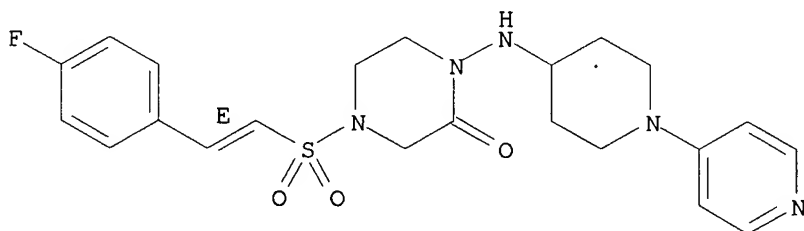
Double bond geometry as shown.



RN 315487-19-5 CAPLUS

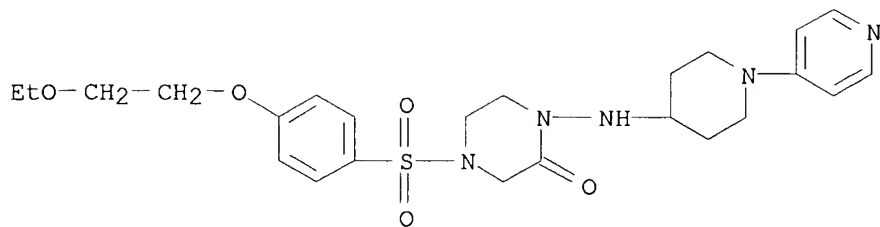
CN Piperazinone, 4-[[ (1E)-2-(4-fluorophenyl)ethenyl]sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



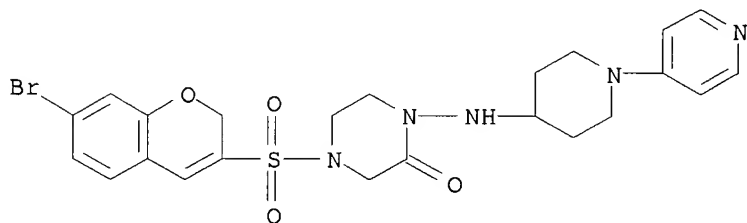
RN 315487-24-2 CAPLUS

CN Piperazinone, 4-[[4-(2-ethoxyethoxy)phenyl]sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315487-33-3 CAPLUS

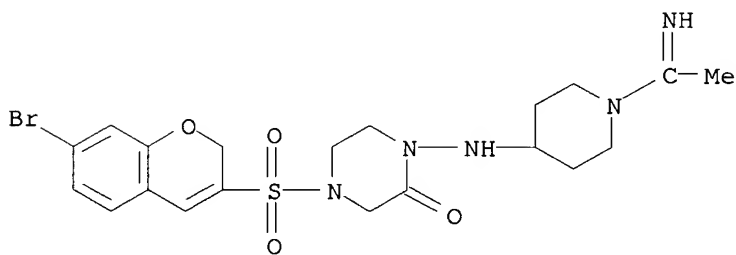
CN Piperazinone, 4-[(7-bromo-2H-1-benzopyran-3-yl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

RN 315487-38-8 CAPLUS

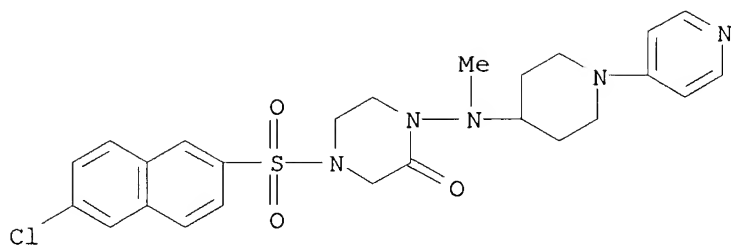
CN Piperazinone, 4-[(7-bromo-2H-1-benzopyran-3-yl)sulfonyl]-1-[[1-(1-iminoethyl)-4-piperidinyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

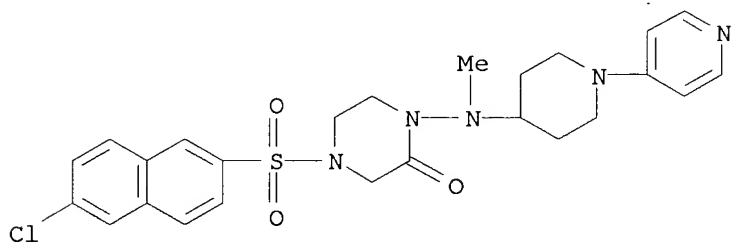
RN 315487-42-4 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315487-46-8 CAPLUS

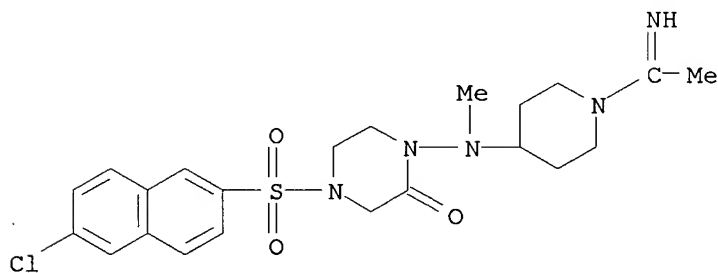
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



⊗ HCl

RN 315487-50-4 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(1-iminoethyl)-4-piperidinyl]methylamino]-, monohydrochloride (9CI) (CA INDEX NAME)

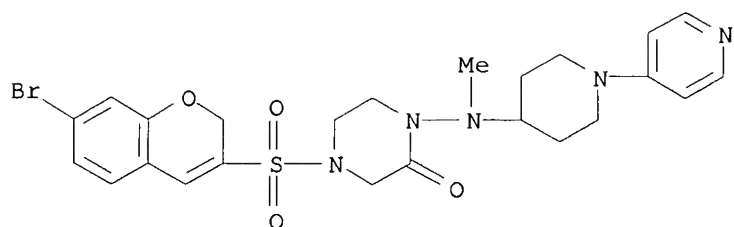


⊗ HCl

RN 315487-59-3 CAPLUS

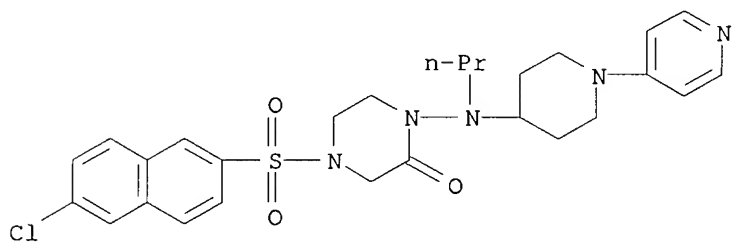
CN Piperazinone, 4-[(7-bromo-2H-1-benzopyran-3-yl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)





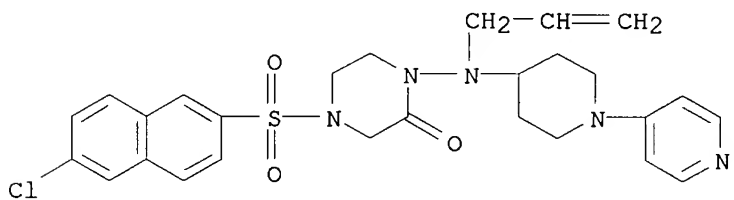
RN 315487-67-3 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[propyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



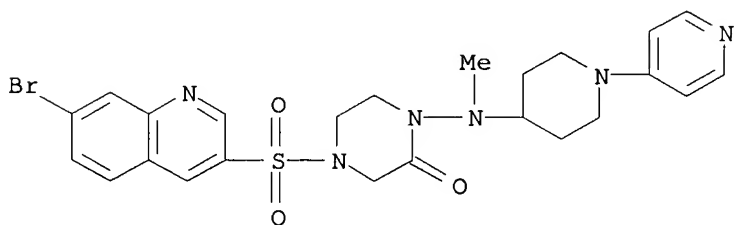
RN 315487-71-9 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[2-propenyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315487-79-7 CAPLUS

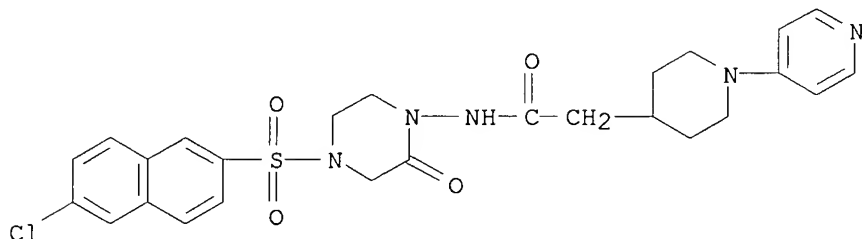
CN Piperazinone, 4-[(7-bromo-3-quinolinyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



O HCl

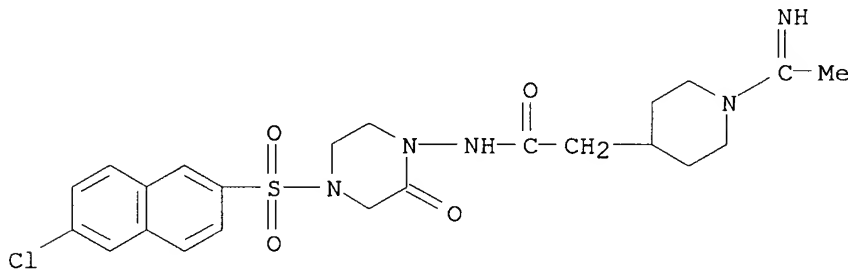
RN 315487-83-3 CAPLUS

CN 4-Piperidineacetamide, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-1-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 315487-88-8 CAPLUS

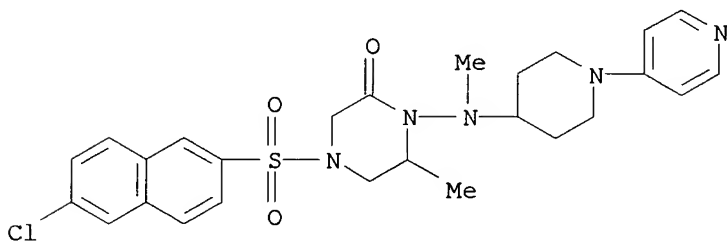
CN 4-Piperidineacetamide, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-1-(1-iminoethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



⊗ 2 HCl

RN 315488-00-7 CAPLUS

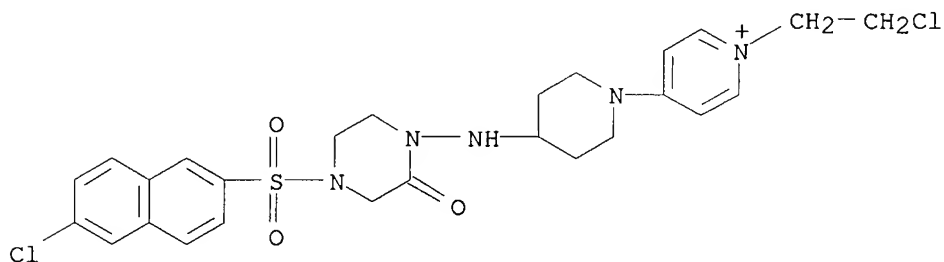
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-methyl-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



⊗ HCl

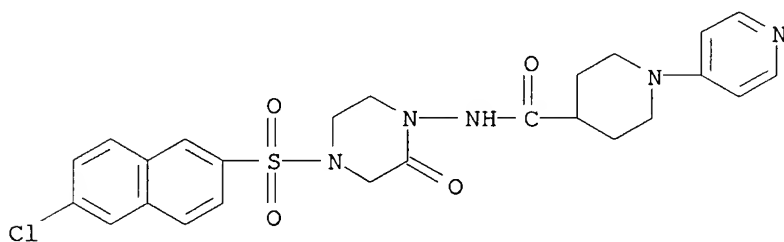
RN 315488-12-1 CAPLUS

CN Pyridinium, 1-(2-chloroethyl)-4-[4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]amino]-1-piperidinyl]-, chloride (9CI) (CA INDEX NAME)



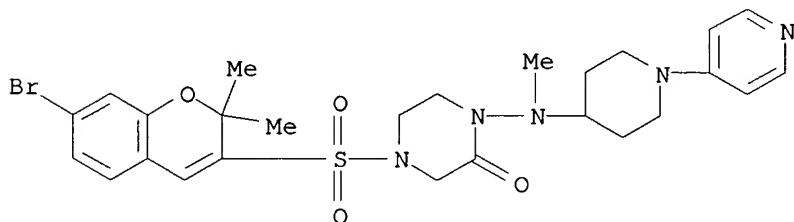
RN 315488-16-5 CAPLUS

CN 4-Piperidinecarboxamide, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-1-(4-pyridinyl)- (9CI) (CA INDEX NAME)



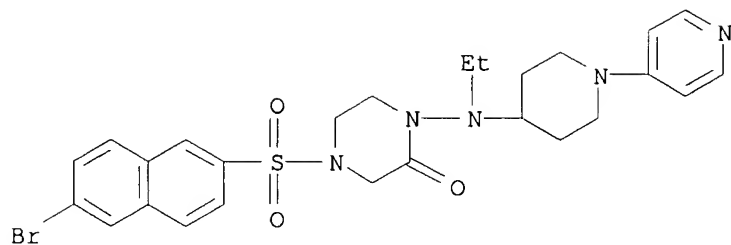
RN 315488-23-4 CAPLUS

CN Piperazinone, 4-[(7-bromo-2,2-dimethyl-2H-1-benzopyran-3-yl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



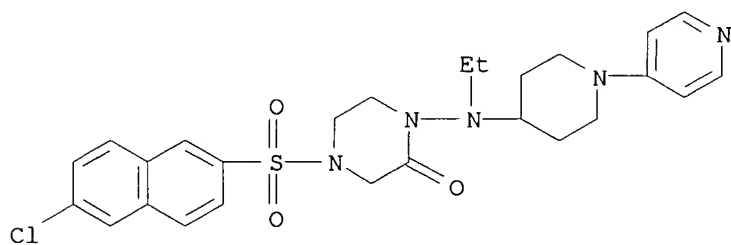
RN 315488-27-8 CAPLUS

CN Piperazinone, 4-[(6-bromo-2-naphthalenyl)sulfonyl]-1-[ethyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315488-31-4 CAPLUS

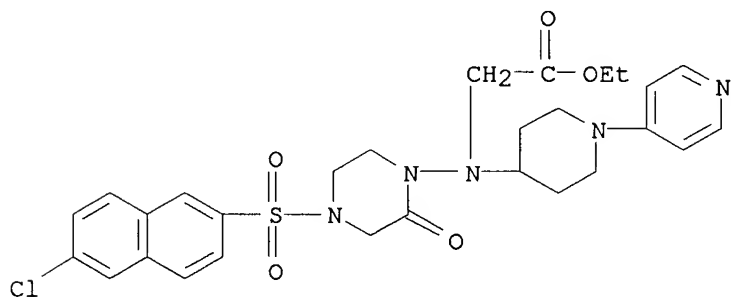
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[ethyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



⊗ HCl

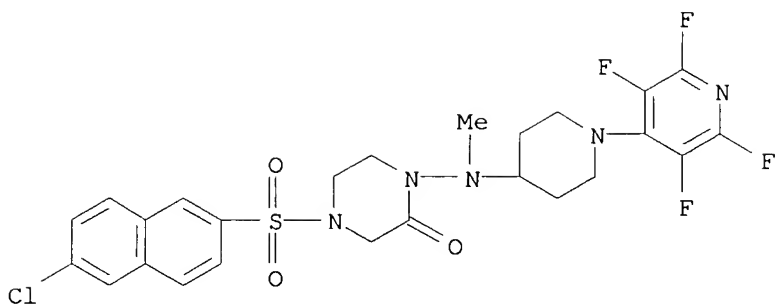
RN 315488-35-8 CAPLUS

CN Glycine, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-N-[1-(4-pyridinyl)-4-piperidinyl]-, ethyl ester (9CI) (CA INDEX NAME)



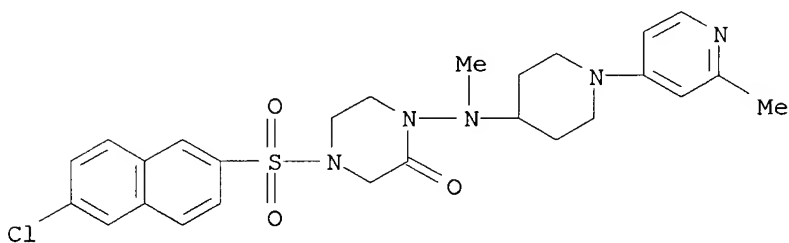
RN 315488-39-2 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2,3,5,6-tetrafluoro-4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315488-48-3 CAPLUS

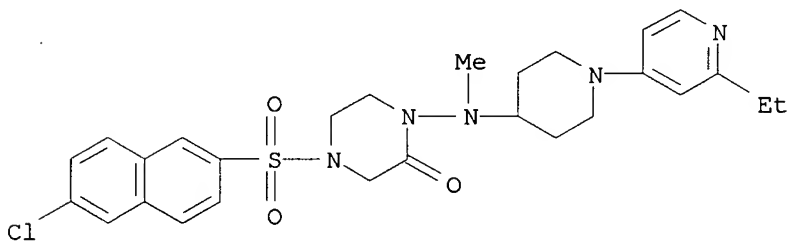
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-, monohydrochloride (9CI) (CA INDEX NAME)



⊙ HCl

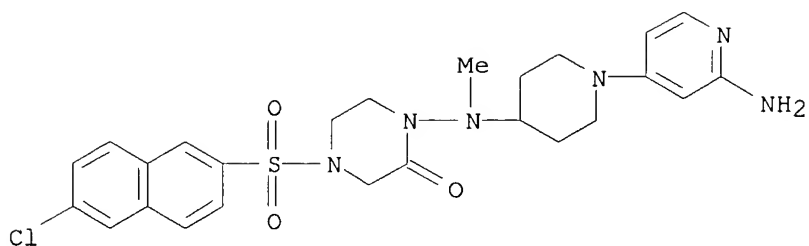
RN 315488-53-0 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2-ethyl-4-pyridinyl)-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)



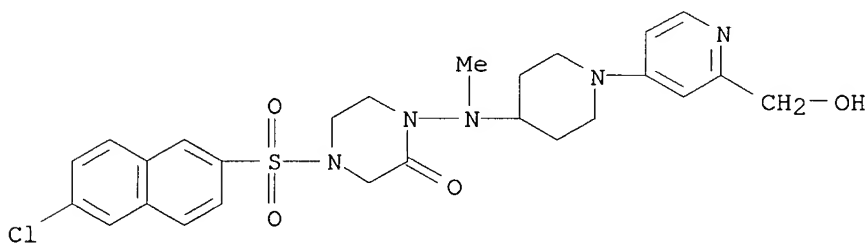
RN 315488-57-4 CAPLUS

CN Piperazinone, 1-[[1-(2-amino-4-pyridinyl)-4-piperidinyl]methylamino]-4-[(6-chloro-2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 315488-65-4 CAPLUS

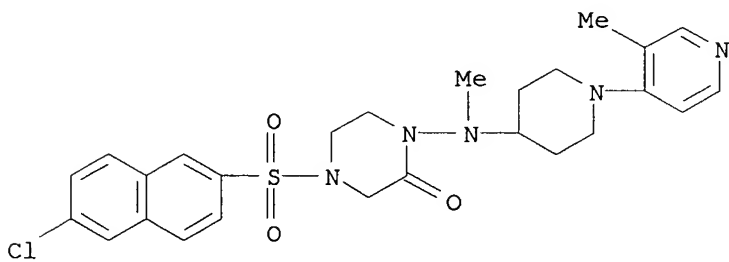
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(hydroxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]-, monohydrochloride (9CI) (CA INDEX NAME)



⊕ HCl

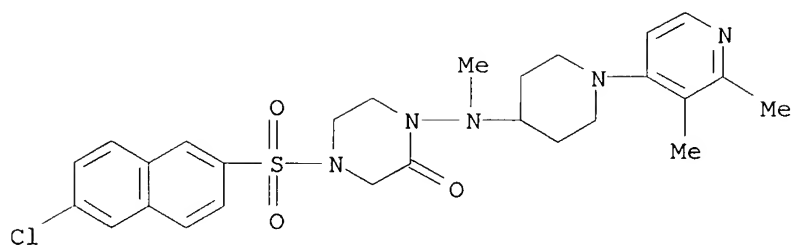
RN 315488-69-8 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(3-methyl-4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



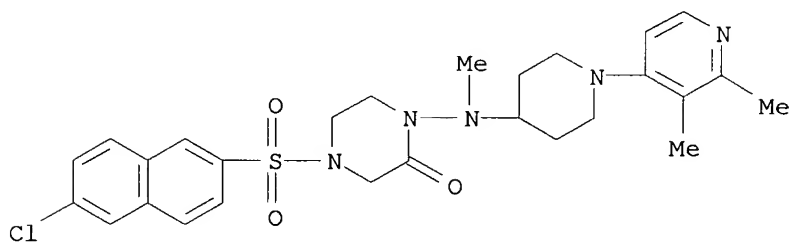
RN 315488-73-4 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2,3-dimethyl-4-pyridinyl)-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)



RN 315488-77-8 CAPLUS

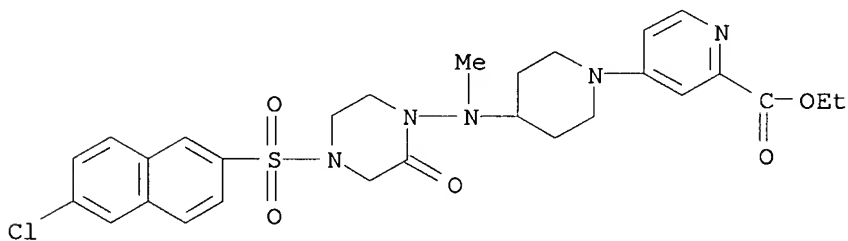
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2,3-dimethyl-4-pyridinyl)-4-piperidinyl]methylamino]-, monohydrochloride (9CI) (CA INDEX NAME)



O HCl

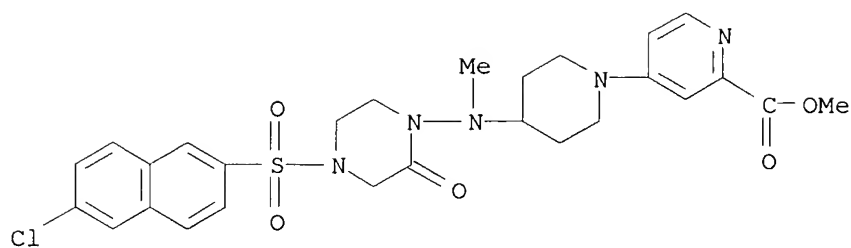
RN 315488-81-4 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-[4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]methylamino]-1-piperidinyl]-, ethyl ester (9CI) (CA INDEX NAME)

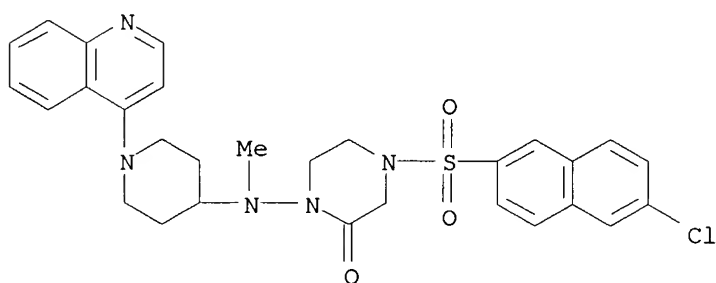


RN 315488-86-9 CAPLUS

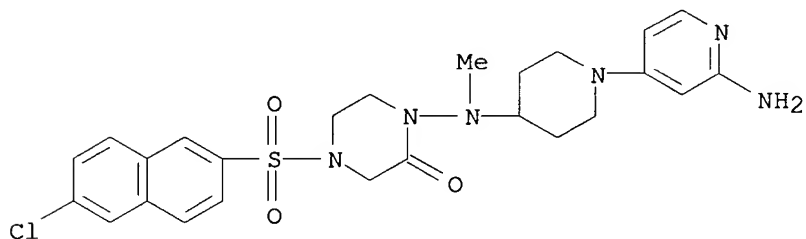
CN 2-Pyridinecarboxylic acid, 4-[4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]methylamino]-1-piperidinyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 315488-90-5 CAPLUS  
 CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-quinolinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



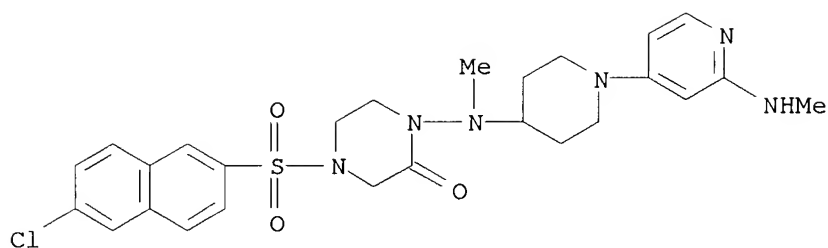
RN 315488-94-9 CAPLUS  
 CN Piperazinone, 1-[[1-(2-amino-4-pyridinyl)-4-piperidinyl]methylamino]-4-[(6-chloro-2-naphthalenyl)sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



○ HCl

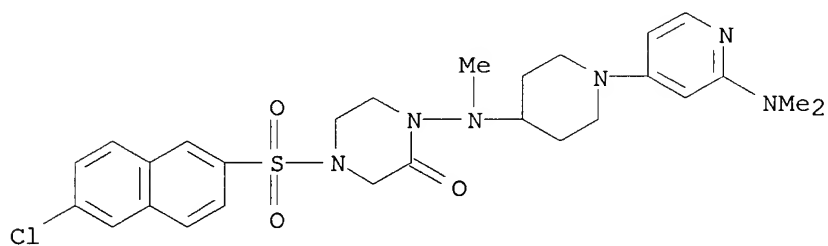
RN 315488-98-3 CAPLUS  
 CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-(methylamino)-4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)





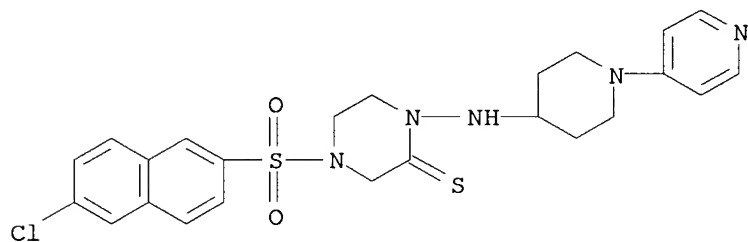
RN 315489-02-2 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(dimethylamino)-4-pyridinyl]-4-piperidinyl]methyamino]- (9CI) (CA INDEX NAME)



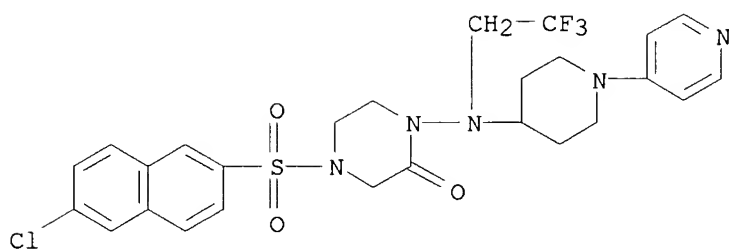
RN 315489-06-6 CAPLUS

CN Piperazinethione, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



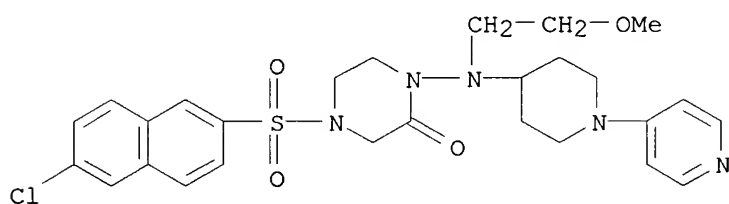
RN 315489-10-2 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(4-pyridinyl)-4-piperidinyl](2,2,2-trifluoroethyl)amino]- (9CI) (CA INDEX NAME)



RN 315489-14-6 CAPLUS

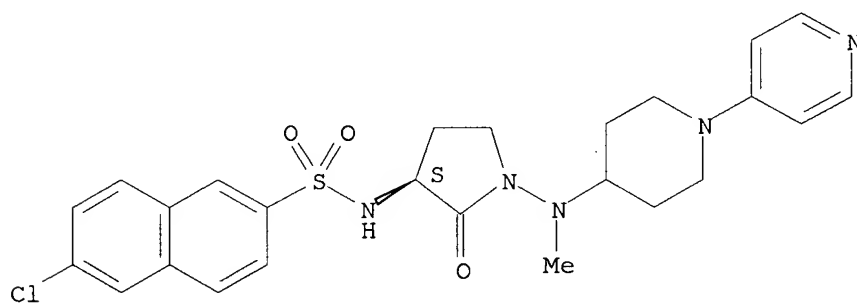
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[(2-methoxyethyl)[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315489-27-1 CAPLUS

CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

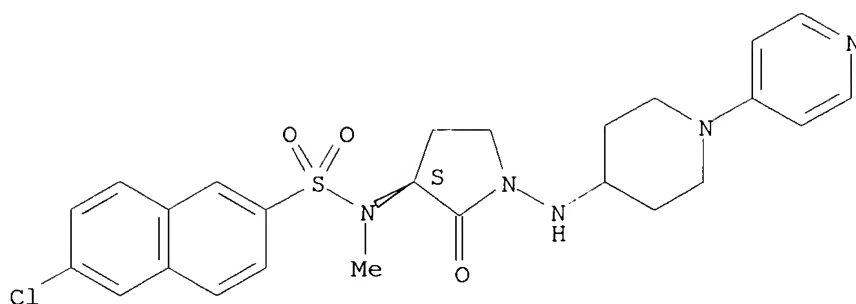
Absolute stereochemistry.



RN 315489-32-8 CAPLUS

CN 2-Naphthalenesulfonamide, 6-chloro-N-methyl-N-[(3S)-2-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

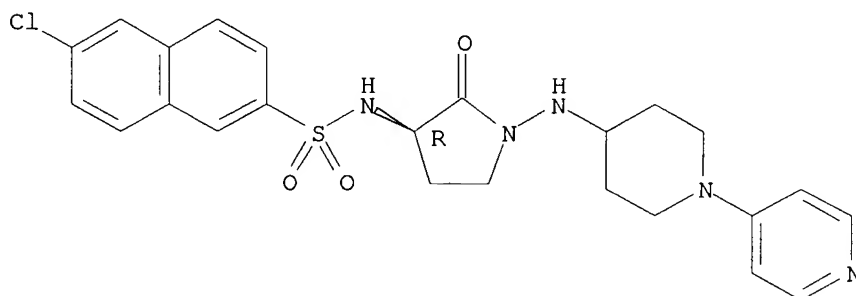
Absolute stereochemistry.



RN 315489-36-2 CAPLUS

CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3R)-2-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

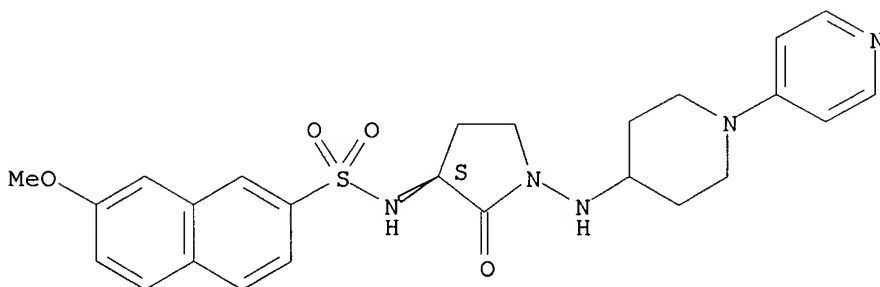
Absolute stereochemistry.



RN 315489-40-8 CAPLUS

CN 2-Naphthalenesulfonamide, 7-methoxy-N-[(3S)-2-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

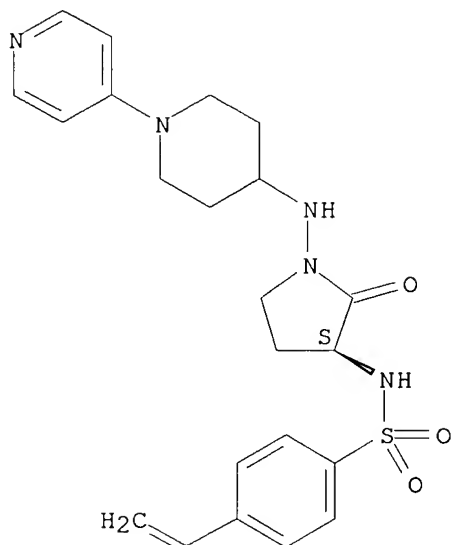
Absolute stereochemistry.



RN 315489-44-2 CAPLUS

CN Benzenesulfonamide, 4-ethenyl-N-[(3S)-2-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

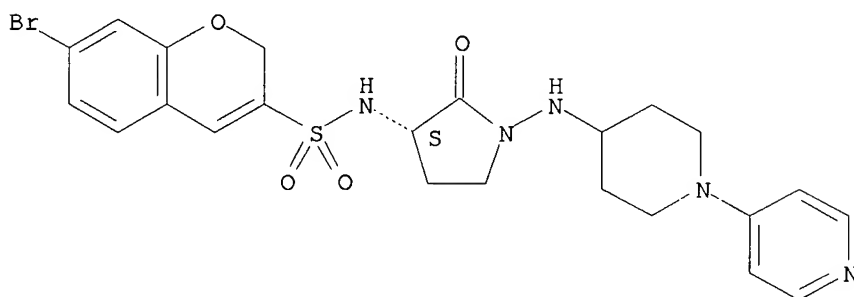
Absolute stereochemistry.



RN 315489-48-6 CAPLUS

CN 2H-1-Benzopyran-3-sulfonamide, 7-bromo-N-[(3S)-2-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

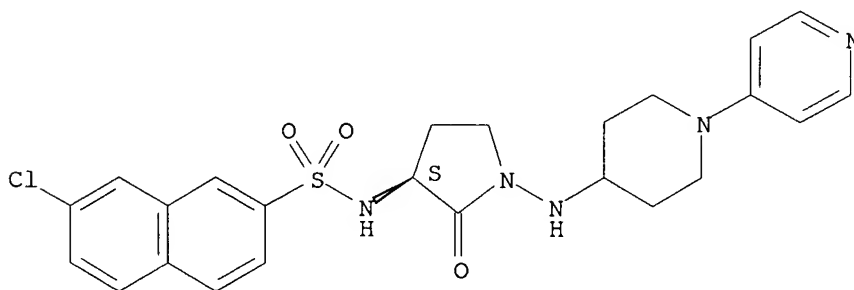
Absolute stereochemistry.



RN 315489-52-2 CAPLUS

CN 2-Naphthalenesulfonamide, 7-chloro-N-[(3S)-2-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



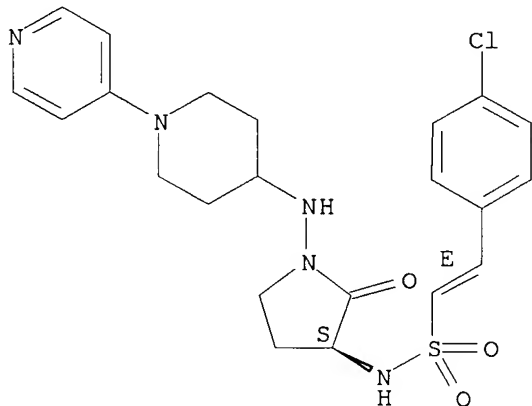
10/018,962

RN 315489-56-6 CAPLUS

CN Ethenesulfonamide, 2-(4-chlorophenyl)-N-[(3S)-2-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-3-pyrrolidinyl]-, (1E)- (9CI) (CA INDEX NAME)

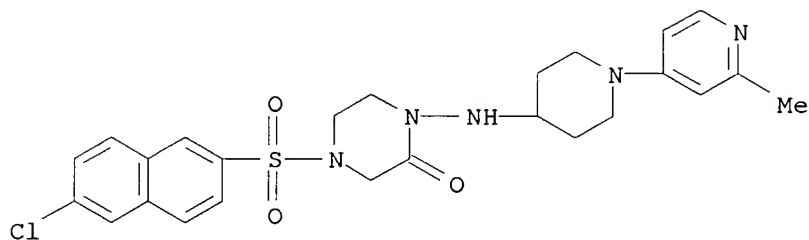
Absolute stereochemistry.

Double bond geometry as shown.



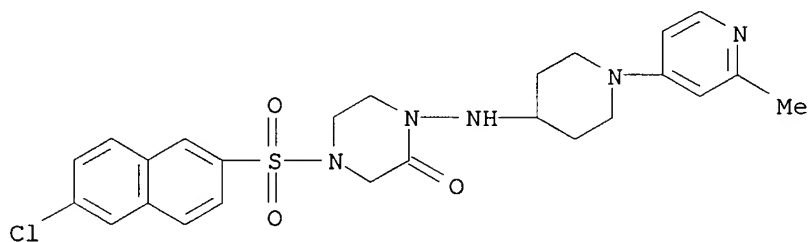
RN 315489-60-2 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315489-64-6 CAPLUS

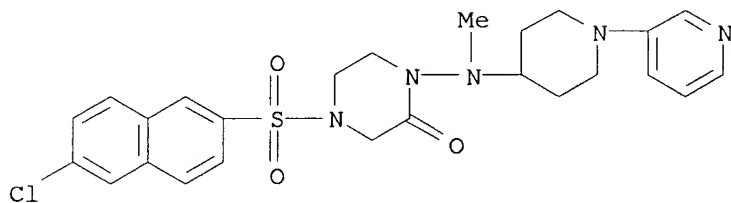
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

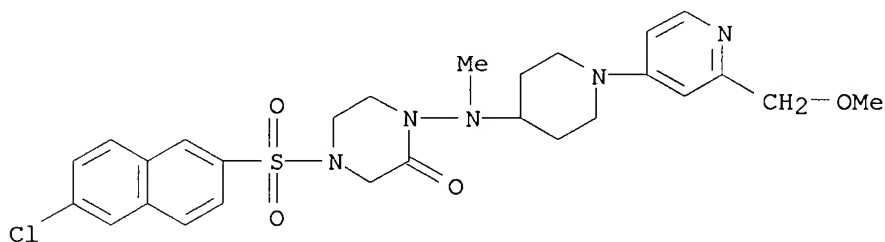
RN 315489-76-0 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(3-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



RN 315489-84-0 CAPLUS

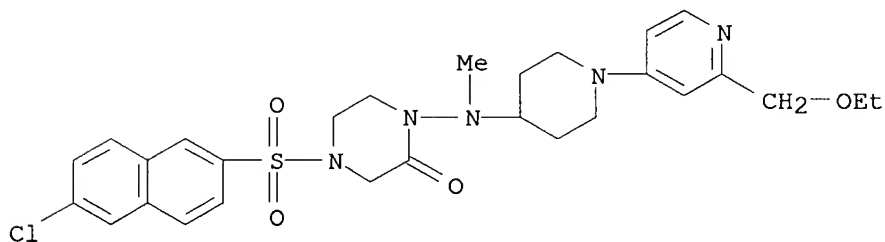
CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(methoxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]-, monohydrochloride (9CI) (CA INDEX NAME)



O HCl

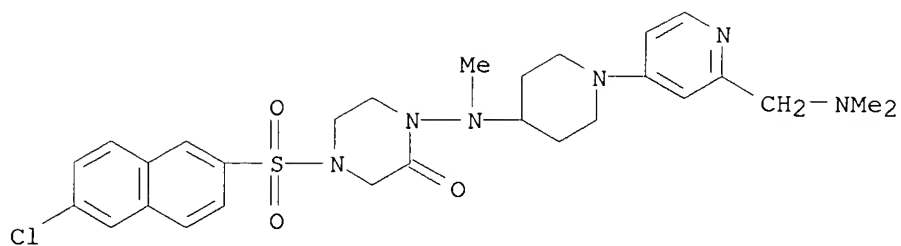
RN 315489-86-2 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(ethoxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)



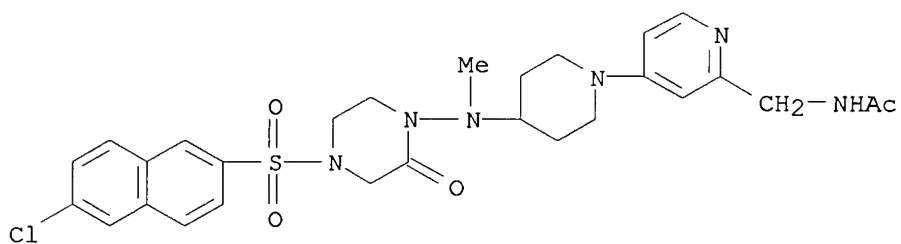
RN 315489-91-9 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-[(dimethylamino)methyl]-4-pyridinyl]-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)



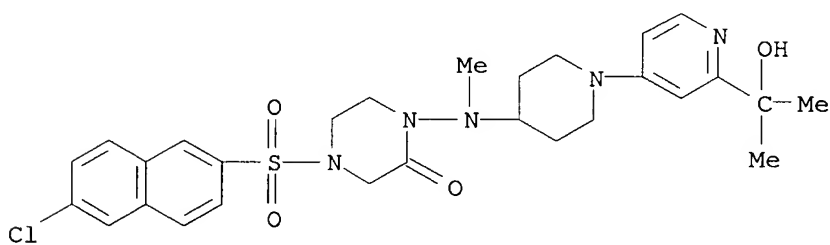
RN 315489-95-3 CAPLUS

CN Acetamide, N-[[4-[4-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]methylamino]-1-piperidinyl]-2-pyridinyl]methyl]- (9CI) (CA INDEX NAME)



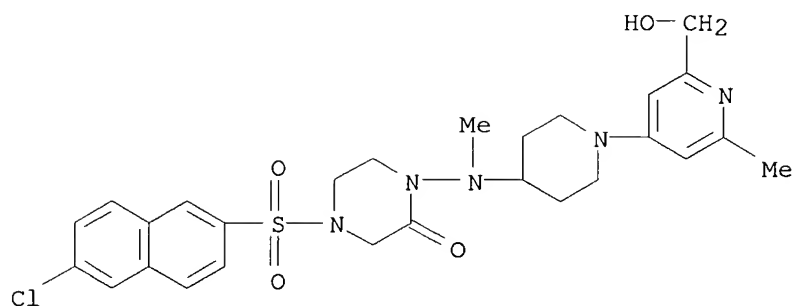
RN 315489-99-7 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(1-hydroxy-1-methylethyl)-4-pyridinyl]-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)



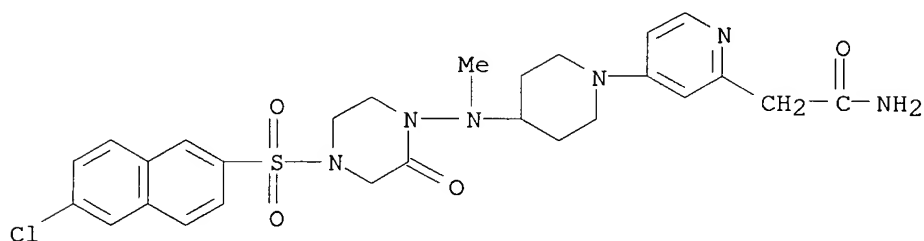
RN 315490-04-1 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(hydroxymethyl)-6-methyl-4-pyridinyl]-4-piperidinyl]methylamino]- (9CI) (CA INDEX NAME)



RN 315490-08-5 CAPLUS

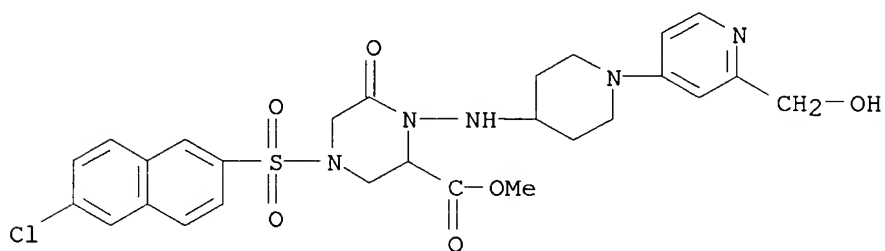
CN 2-Pyridineacetamide, 4-[4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]methylamino]-1-piperidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



O HCl

RN 315490-12-1 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(hydroxymethyl)-4-pyridinyl]-4-piperidinyl]amino]-6-oxo-, methyl ester, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

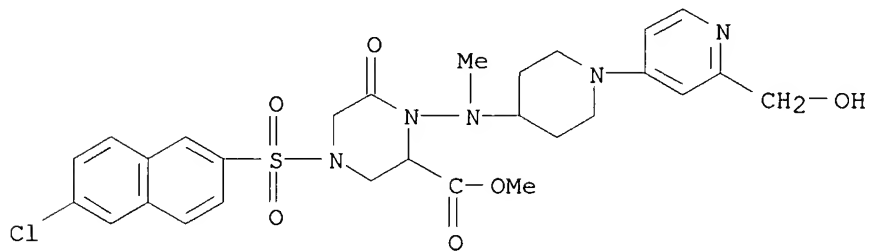
RN 315490-15-4 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-



10/018,962

[2-(hydroxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]-6-oxo-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

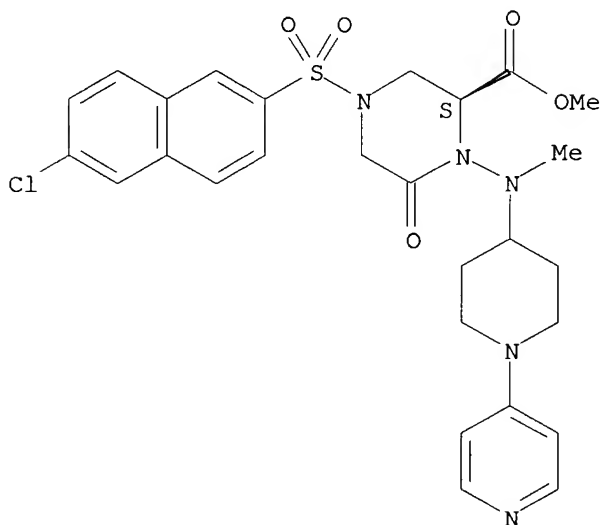


⊙ HCl

RN 315490-19-8 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester, monohydrochloride, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

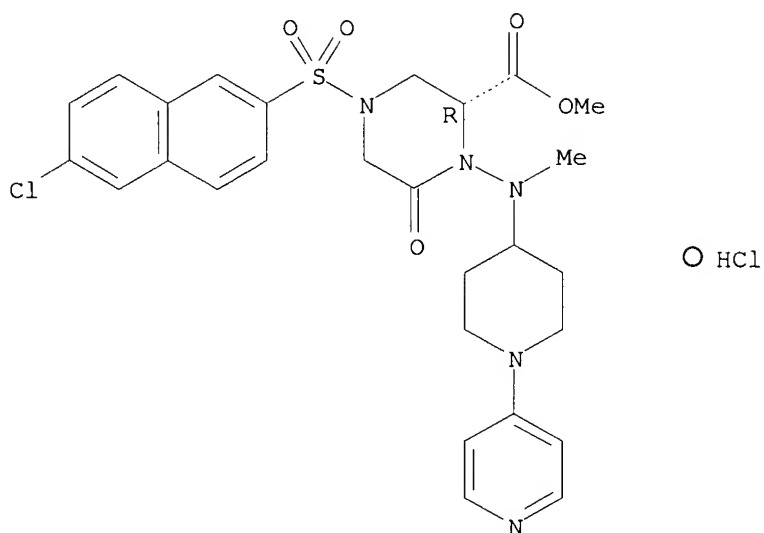


⊙ HCl

RN 315490-23-4 CAPLUS

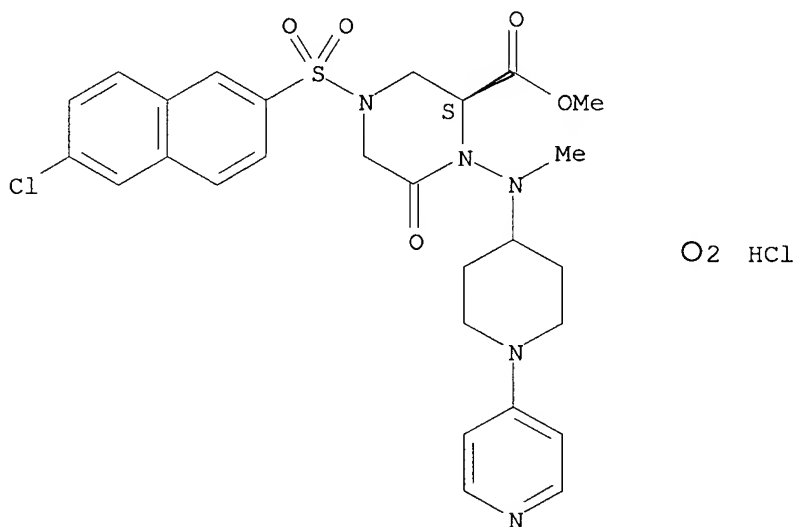
CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester, monohydrochloride, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



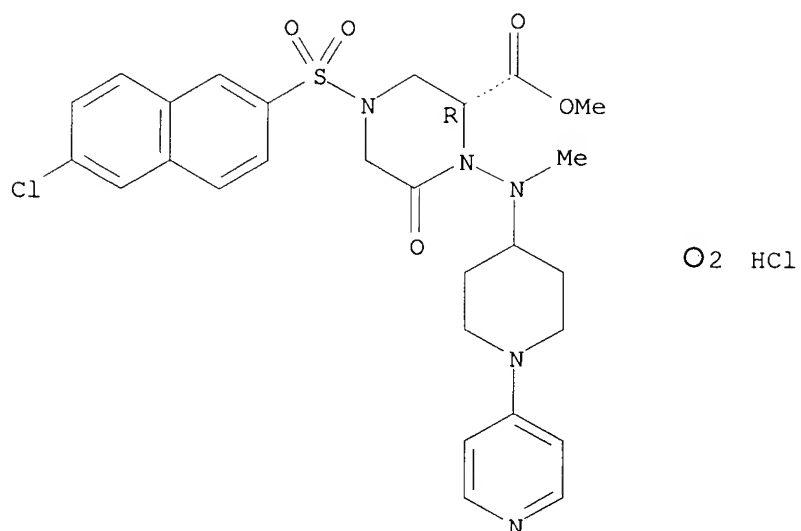
RN 315490-28-9 CAPLUS  
 CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester, dihydrochloride, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

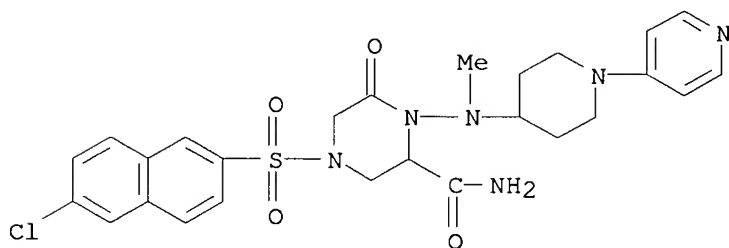


RN 315490-32-5 CAPLUS  
 CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester, dihydrochloride, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

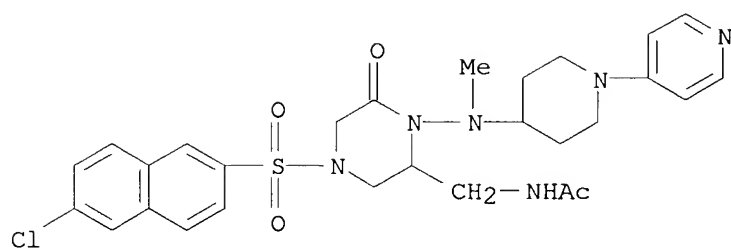


RN 315490-45-0 CAPLUS  
 CN 2-Piperazinecarboxamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, monohydrochloride (9CI) (CA INDEX NAME)



O HCl

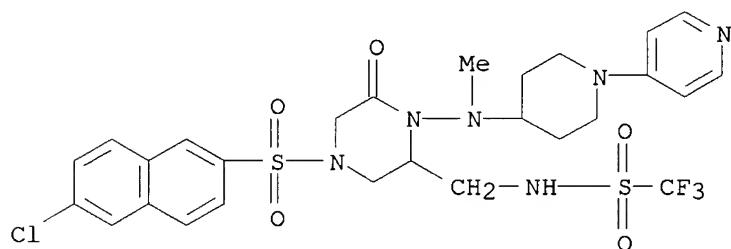
RN 315490-54-1 CAPLUS  
 CN Acetamide, N-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



⊙ HCl

RN 315490-58-5 CAPLUS

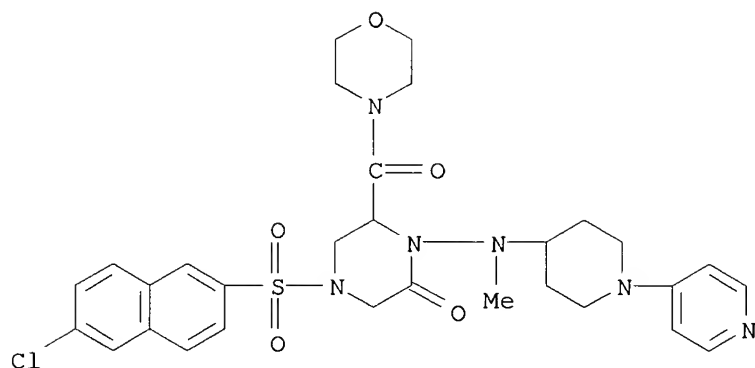
CN Methanesulfonamide, N-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]methyl]-1,1,1-trifluoro-, monohydrochloride (9CI) (CA INDEX NAME)



⊙ HCl

RN 315490-63-2 CAPLUS

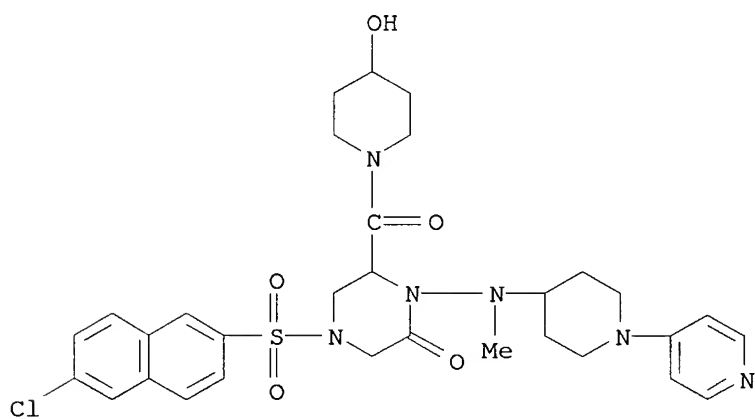
CN Morpholine, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



⊙ HCl

RN 315490-67-6 CAPLUS

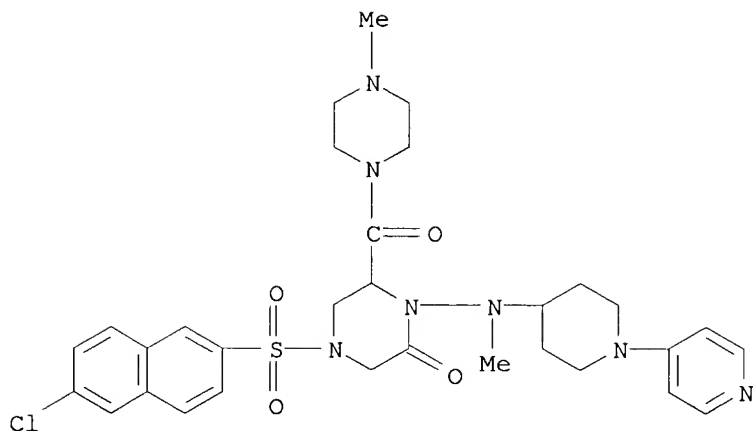
CN 4-Piperidinol, 1-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



○ HCl

RN 315490-72-3 CAPLUS

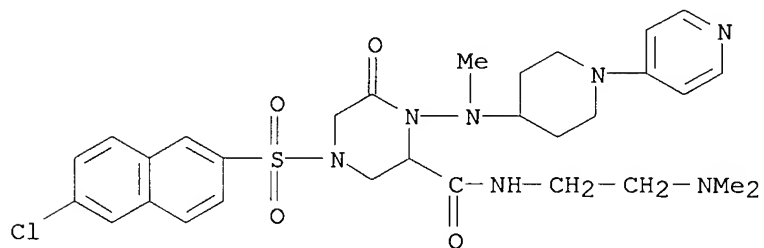
CN Piperazine, 1-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-4-methyl-, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

RN 315490-76-7 CAPLUS

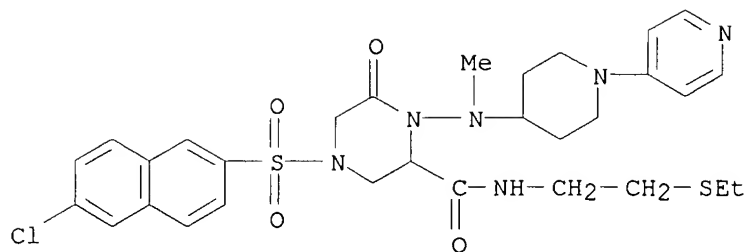
CN 2-Piperazinecarboxamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-N-[2-(dimethylamino)ethyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

RN 315490-84-7 CAPLUS

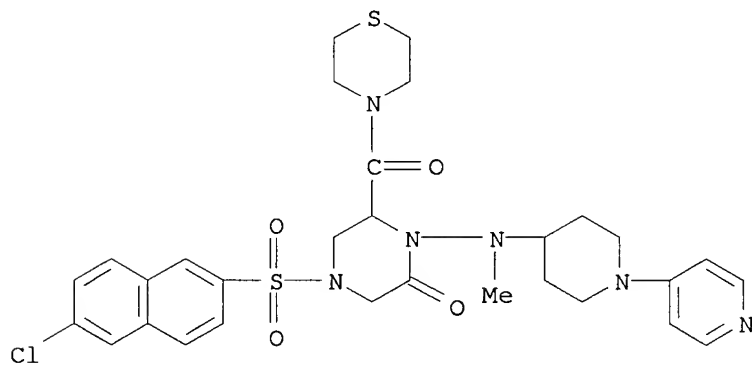
CN 2-Piperazinecarboxamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-N-[2-(ethylthio)ethyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, monohydrochloride (9CI) (CA INDEX NAME)



⊕ HCl

RN 315490-88-1 CAPLUS

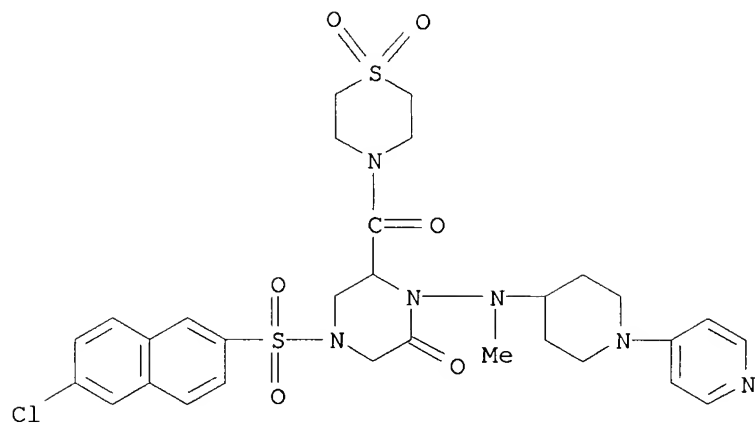
CN Thiomorpholine, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



○ HCl

RN 315490-92-7 CAPLUS

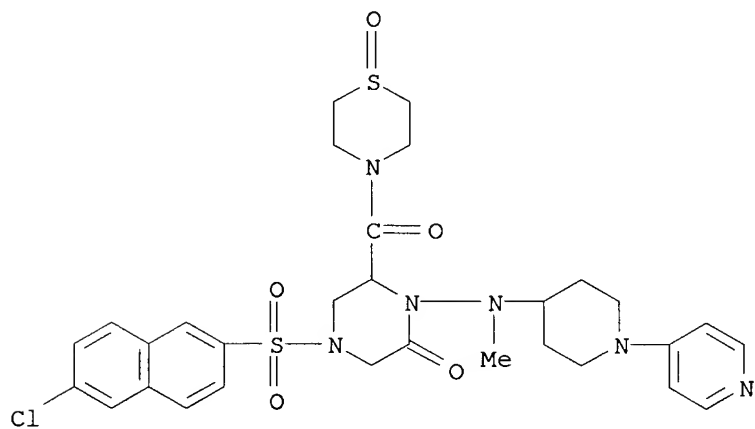
CN Thiomorpholine, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)



⊙ HCl

RN 315490-96-1 CAPLUS

CN Thiomorpholine, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-, 1-oxide, monohydrochloride (9CI) (CA INDEX NAME)

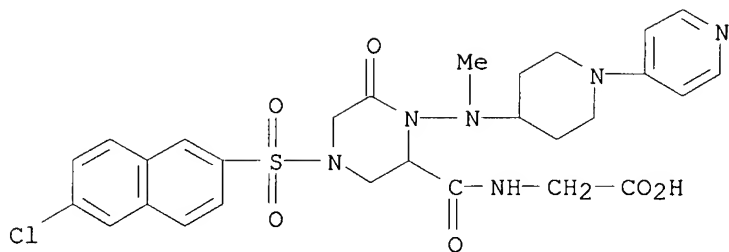


⊙ HCl

RN 315491-00-0 CAPLUS

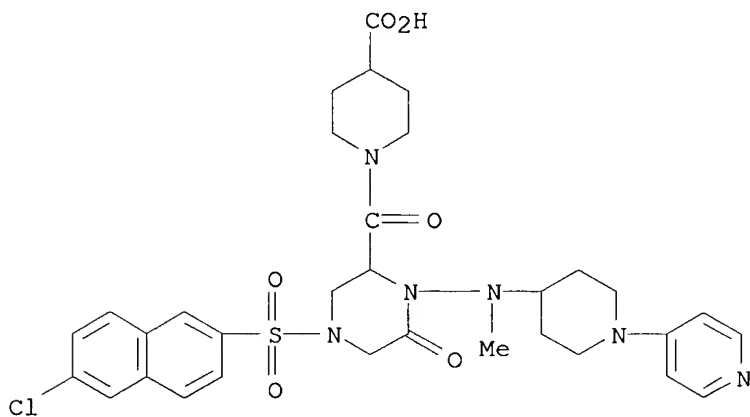
CN Glycine, N-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)





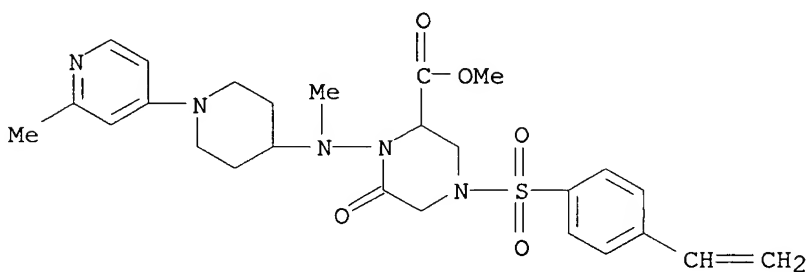
RN 315491-04-4 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]- (9CI) (CA INDEX NAME)



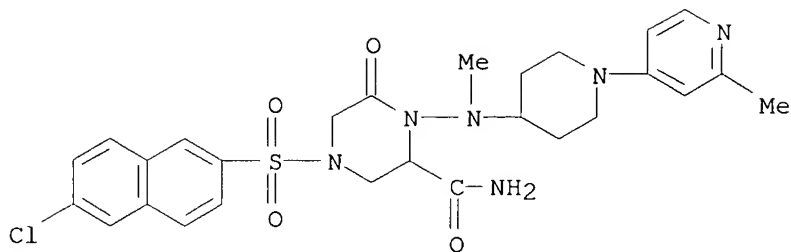
RN 315491-26-0 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(4-ethenylphenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



RN 315491-31-7 CAPLUS

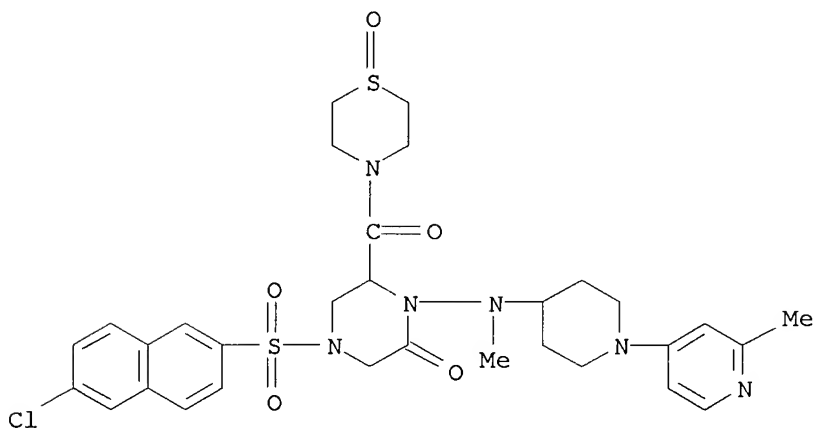
CN 2-Piperazinecarboxamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, monohydrochloride (9CI) (CA INDEX NAME)



⊙ HCl

RN 315491-36-2 CAPLUS

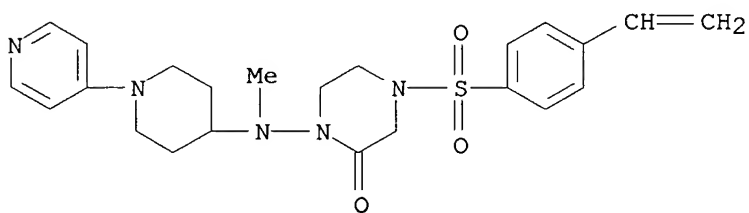
CN Thiomorpholine, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]carbonyl]-, 1-oxide, monohydrochloride (9CI) (CA INDEX NAME)



○ HCl

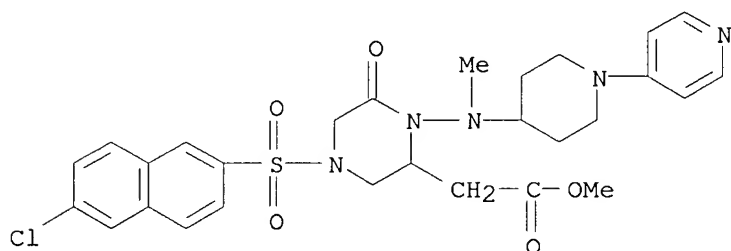
RN 315491-40-8 CAPLUS

CN Piperazinone, 4-[(4-ethenylphenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



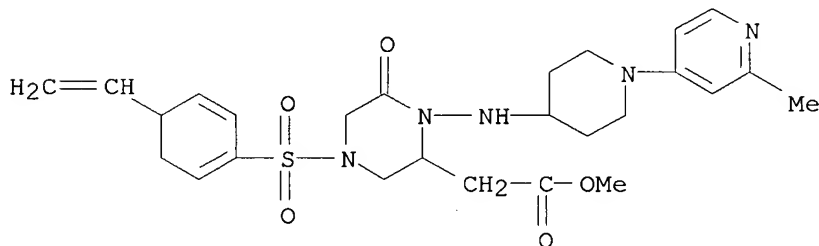
RN 315491-49-7 CAPLUS

CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



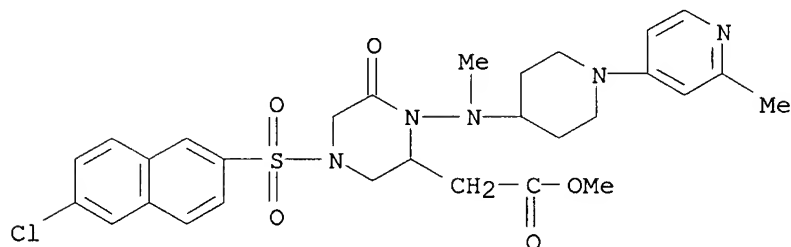
RN 315491-53-3 CAPLUS

CN 2-Piperazineacetic acid, 4-[(4-ethenyl-1,5-cyclohexadien-1-yl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



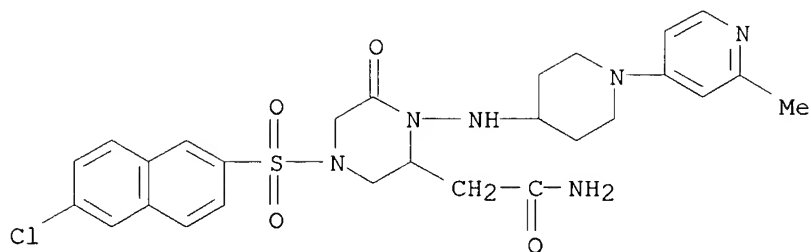
RN 315491-61-3 CAPLUS

CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



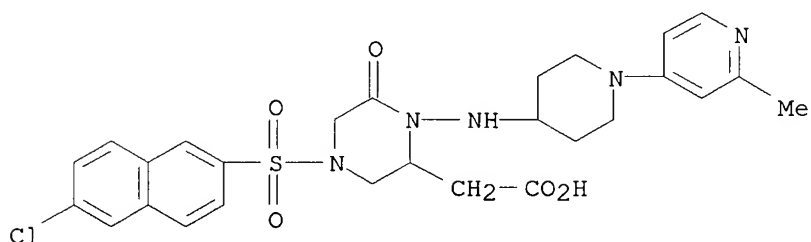
RN 315491-66-8 CAPLUS

CN 2-Piperazineacetamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo- (9CI) (CA INDEX NAME)



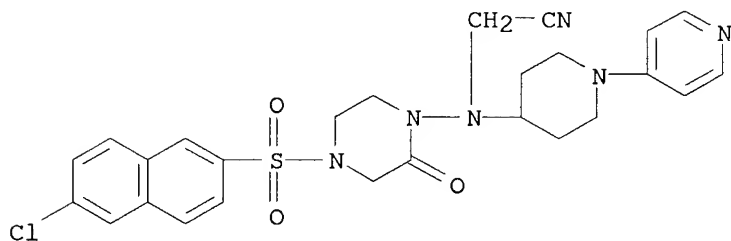
RN 315491-71-5 CAPLUS

CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo- (9CI) (CA INDEX NAME)



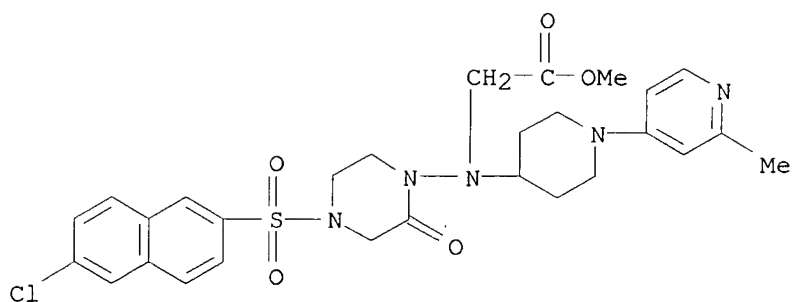
RN 315491-75-9 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[(cyanomethyl)[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



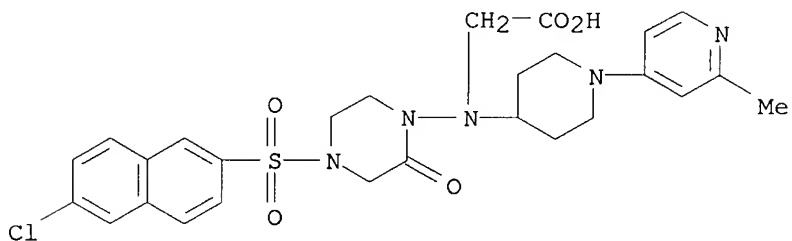
RN 315491-79-3 CAPLUS

CN Glycine, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-N-[1-(2-methyl-4-pyridinyl)-4-piperidinyl]-, methyl ester (9CI) (CA INDEX NAME)



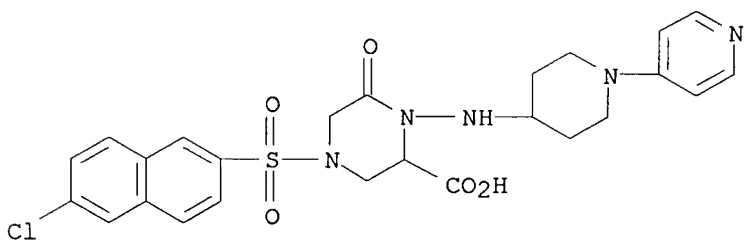
RN 315491-88-4 CAPLUS

CN Glycine, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-N-[1-(2-methyl-4-pyridinyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



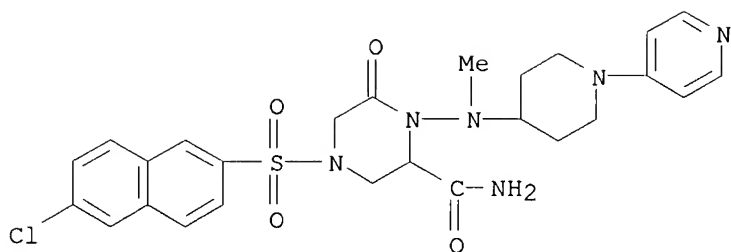
RN 315492-23-0 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



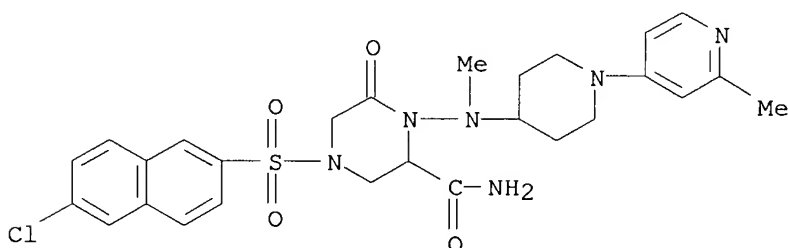
RN 315492-30-9 CAPLUS

CN 2-Piperazinecarboxamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl{1-(4-pyridinyl)-4-piperidinyl}amino]-6-oxo- (9CI) (CA INDEX NAME)



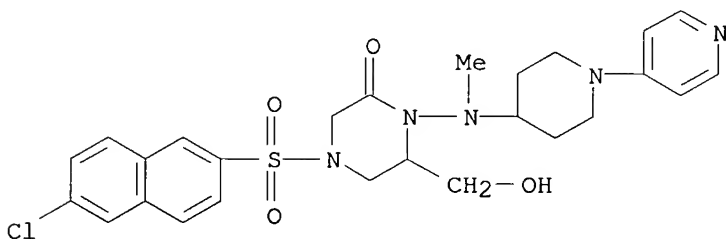
RN 315492-34-3 CAPLUS

CN 2-Piperazinecarboxamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-6-oxo- (9CI) (CA INDEX NAME)



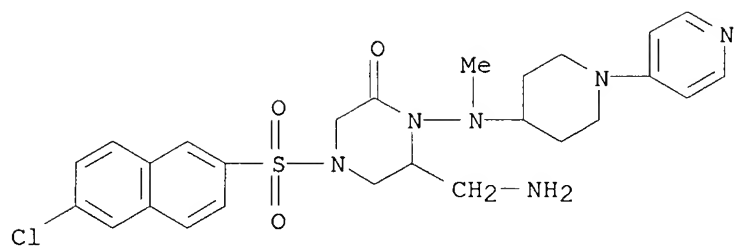
RN 315492-38-7 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-(hydroxymethyl)-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



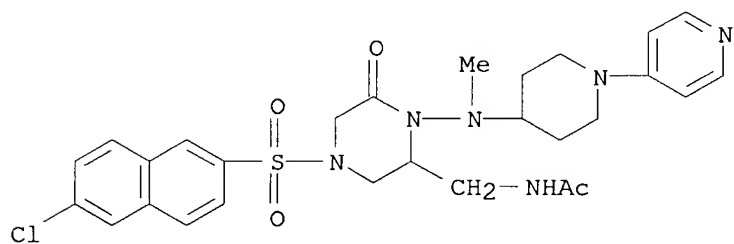
RN 315492-42-3 CAPLUS

CN Piperazinone, 6-(aminomethyl)-4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



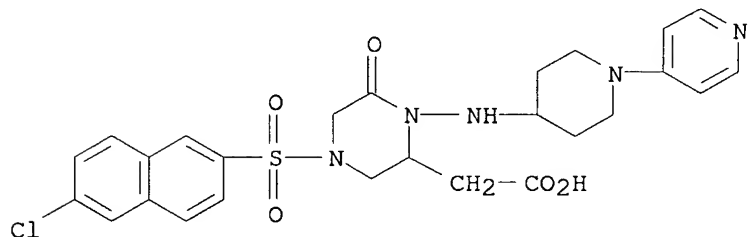
RN 315492-46-7 CAPLUS

CN Acetamide, N-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-6-oxo-2-piperazinyl]methyl]- (9CI) (CA INDEX NAME)



RN 315492-50-3 CAPLUS

CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



IT 9001-29-0, Blood coagulation factor X

RL: BOC (Biological occurrence); BSU (Biological study, unclassified);

BIOL (Biological study); OCCU (Occurrence)

(prepn. and effect of acylhydrazine derivs. as activated blood coagulation factor X inhibitors)

RN 9001-29-0 CAPLUS

CN Blood-coagulation factor X (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

IT 77-76-9 79-37-8, Oxalyl chloride 98-58-8,

4-Bromobenzenesulfonyl chloride 98-60-2, 4-Chlorobenzenesulfonyl chloride 107-08-4, n-Propyl iodide 108-00-9,

N,N-Dimethylethylenediamine 123-90-0, Thiomorpholine

124-41-4, Sodium methoxide 141-52-6, Sodium ethoxide  
 177-11-7, 1,4-Dioxo-8-azaspiro[4.5]decane 501-53-1  
 611-35-8, 4-Chloroquinoline 624-75-9, Iodoacetoneitrile  
 626-67-5, 1-Methylpiperidine 645-36-3,  
 2,2-Diethoxyethylamine 691-64-5 700-16-3,  
 Pentafluoropyridine 870-46-2, tert-Butoxycarbonylhydrazine  
 872-50-4, 1-Methyl-2-pyrrolidinone, reactions 937-14-4  
 1117-71-1 1138-80-3, N-Benzylloxycarbonylglycine  
 2208-07-3, Ethylacetoimidate hydrochloride 2488-15-5,  
 Boc-L-methionine 2592-95-2, 1-Hydroxy-1H-benzotriazole  
 2633-67-2, 4-Vinylbenzenesulfonyl chloride 2712-78-9,  
 [Bis(trifluoroacetoxy)iodo]benzene 3678-63-5,  
 4-Chloro-2-picoline 4248-19-5, Carbamic acid tert-butyl ester  
 5382-16-1, 4-Hydroxypiperidine 5470-22-4,  
 4-Chloropyridine-2-carboxylic acid 5625-67-2, 2-Piperazinone  
 6168-72-5, 2-Amino-1-propanol 7087-68-5,  
 N-Ethyl-diisopropylamine 7252-83-7, Bromoacetaldehyde dimethyl  
 acetal 7379-35-3, 4-Chloropyridine hydrochloride  
 13734-36-6 19524-06-2, 4-Bromopyridine hydrochloride  
 19524-08-4 19798-80-2, 2-Amino-4-chloropyridine  
 19961-27-4, Isopropylethylamine 29880-22-6  
 41979-39-9, 4-Piperidone hydrochloride 49827-15-8  
 50637-98-4, 6-Bromonaphthalene-2-sulfonyl chloride  
 52147-98-5 54303-30-9, 2-(Ethylthio)ethylamine  
 hydrochloride 56875-60-6, 7-Methoxynaphthalene-2-sulfonyl  
 chloride 63071-10-3 69812-29-9, 2-Acetamido-4-  
 methylthiazole-5-sulfonyl chloride 72804-96-7,  
 O-Diphenylphosphinylhydroxylamine 79099-07-3,  
 1-(tert-Butoxycarbonyl)-4-piperidone 93913-86-1,  
 1-(4-Pyridinyl)-4-piperidinecarboxylic acid 98821-28-4  
 102153-63-9, 6-Chloronaphthalene-2-sulfonyl chloride  
 102153-64-0 117934-33-5, 4-Chloro-2,6-dimethylpyridine  
 hydrochloride 128852-02-8 128852-07-3  
 156761-88-5 157688-46-5, 1-(tert-Butoxycarbonyl)-4-  
 piperidinylacetic acid 166964-33-6, 5-Chloro-3-  
 methylbenzo[b]thiophene-2-sulfonyl chloride 176977-85-8  
 198206-61-0 205055-20-5 205055-23-8  
 220655-06-1, Thiomorpholine 1,1-dioxide trifluoroacetate  
 239074-33-0 239074-34-1 264624-20-6  
 315494-83-8 315494-94-1 315495-02-4  
 315495-15-9 315495-26-2 315495-30-8  
 315495-38-6 315495-45-5 315495-96-6  
 315496-06-1 315496-27-6 315496-34-5  
 315496-38-9 315496-41-4 315496-69-6  
 315496-73-2 315496-80-1 315497-15-5  
 315497-19-9 315497-92-8 315498-76-1  
 315498-85-2

RL: RCT (Reactant); RACT (Reactant or reagent)

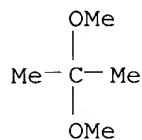
(prepn. and effect of acylhydrazine derivs. as activated blood  
coagulation factor X inhibitors)

RN 77-76-9 CAPLUS

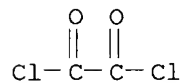
CN Propane, 2,2-dimethoxy- (9CI) (CA INDEX NAME)



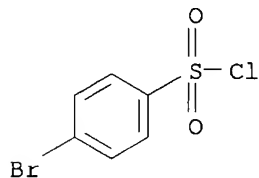
10/018,962



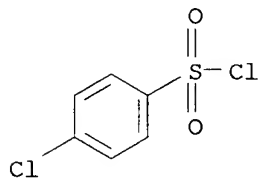
RN 79-37-8 CAPLUS  
CN Ethanediol dichloride (9CI) (CA INDEX NAME)



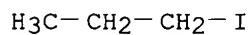
RN 98-58-8 CAPLUS  
CN Benzenesulfonyl chloride, 4-bromo- (9CI) (CA INDEX NAME)



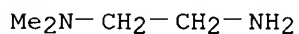
RN 98-60-2 CAPLUS  
CN Benzenesulfonyl chloride, 4-chloro- (9CI) (CA INDEX NAME)



RN 107-08-4 CAPLUS  
CN Propane, 1-iodo- (8CI, 9CI) (CA INDEX NAME)

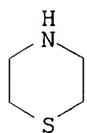


RN 108-00-9 CAPLUS  
CN 1,2-Ethanediamine, N,N-dimethyl- (9CI) (CA INDEX NAME)

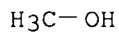


RN 123-90-0 CAPLUS  
CN Thiomorpholine (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

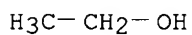
10/018,962



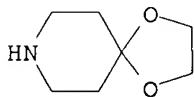
RN 124-41-4 CAPLUS  
CN Methanol, sodium salt (8CI, 9CI) (CA INDEX NAME)



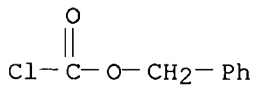
RN 141-52-6 CAPLUS  
CN Ethanol, sodium salt (9CI) (CA INDEX NAME)



RN 177-11-7 CAPLUS  
CN 1,4-Dioxo-8-azaspiro[4.5]decane (7CI, 8CI, 9CI) (CA INDEX NAME)

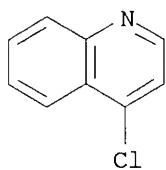


RN 501-53-1 CAPLUS  
CN Carbonochloridic acid, phenylmethyl ester (9CI) (CA INDEX NAME)

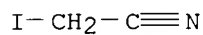


RN 611-35-8 CAPLUS  
CN Quinoline, 4-chloro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

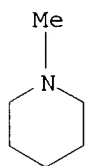
10/018,962



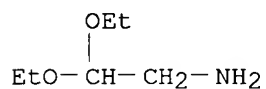
RN 624-75-9 CAPLUS  
CN Acetonitrile, iodo- (7CI, 8CI, 9CI) (CA INDEX NAME)



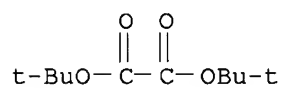
RN 626-67-5 CAPLUS  
CN Piperidine, 1-methyl- (8CI, 9CI) (CA INDEX NAME)



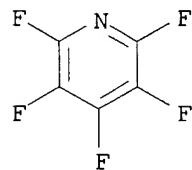
RN 645-36-3 CAPLUS  
CN Ethanamine, 2,2-diethoxy- (9CI) (CA INDEX NAME)



RN 691-64-5 CAPLUS  
CN Ethanedioic acid, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



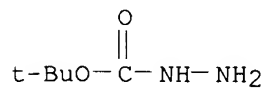
RN 700-16-3 CAPLUS  
CN Pyridine, pentafluoro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



10/018,962

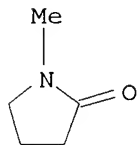
RN 870-46-2 CAPLUS

CN Hydrazinecarboxylic acid, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



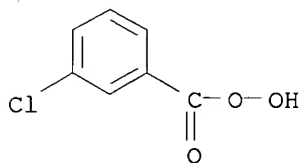
RN 872-50-4 CAPLUS

CN 2-Pyrrolidinone, 1-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



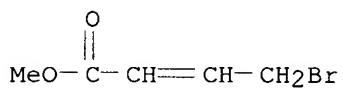
RN 937-14-4 CAPLUS

CN Benzenecarboperoxoic acid, 3-chloro- (9CI) (CA INDEX NAME)



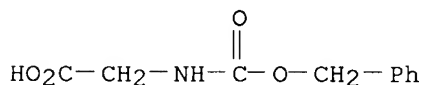
RN 1117-71-1 CAPLUS

CN 2-Butenoic acid, 4-bromo-, methyl ester (9CI) (CA INDEX NAME)



RN 1138-80-3 CAPLUS

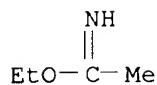
CN Glycine, N-[(phenylmethoxy)carbonyl]- (9CI) (CA INDEX NAME)



RN 2208-07-3 CAPLUS

CN Ethanimidic acid, ethyl ester, hydrochloride (9CI) (CA INDEX NAME)

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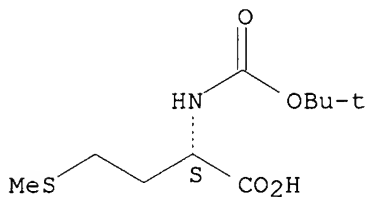


○ HCl

RN 2488-15-5 CAPLUS

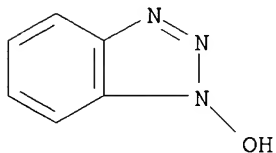
CN L-Methionine, N-[(1,1-dimethylethoxy)carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



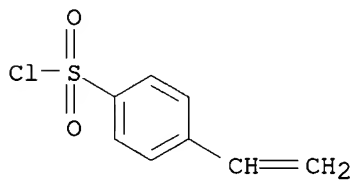
RN 2592-95-2 CAPLUS

CN 1H-Benzotriazole, 1-hydroxy- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



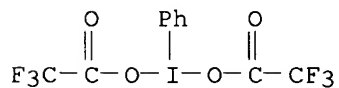
RN 2633-67-2 CAPLUS

CN Benzenesulfonyl chloride, 4-ethenyl- (9CI) (CA INDEX NAME)



RN 2712-78-9 CAPLUS

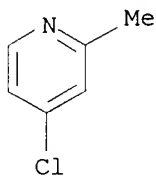
CN Iodine, phenylbis(trifluoroacetato- $\kappa$ O)- (9CI) (CA INDEX NAME)



RN 3678-63-5 CAPLUS

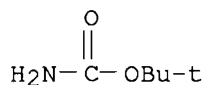
10/018,962

CN Pyridine, 4-chloro-2-methyl- (9CI) (CA INDEX NAME)



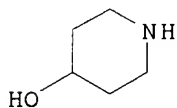
RN 4248-19-5 CAPLUS

CN Carbamic acid, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



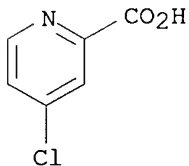
RN 5382-16-1 CAPLUS

CN 4-Piperidinol (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



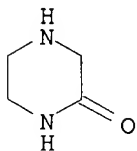
RN 5470-22-4 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-chloro- (9CI) (CA INDEX NAME)



RN 5625-67-2 CAPLUS

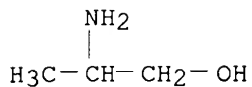
CN Piperazinone (8CI, 9CI) (CA INDEX NAME)



RN 6168-72-5 CAPLUS

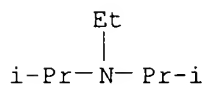
CN 1-Propanol, 2-amino- (9CI) (CA INDEX NAME)

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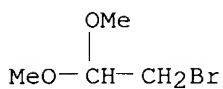
RN 7087-68-5 CAPLUS

CN 2-Propanamine, N-ethyl-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



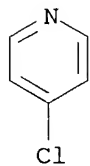
RN 7252-83-7 CAPLUS

CN Ethane, 2-bromo-1,1-dimethoxy- (9CI) (CA INDEX NAME)



RN 7379-35-3 CAPLUS

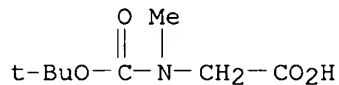
CN Pyridine, 4-chloro-, hydrochloride (8CI, 9CI) (CA INDEX NAME)



⊙ HCl

RN 13734-36-6 CAPLUS

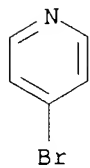
CN Glycine, N-[(1,1-dimethylethoxy)carbonyl]-N-methyl- (9CI) (CA INDEX NAME)



RN 19524-06-2 CAPLUS

CN Pyridine, 4-bromo-, hydrochloride (7CI, 8CI, 9CI) (CA INDEX NAME)

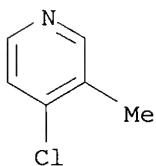
10/018,962



○ HCl

RN 19524-08-4 CAPLUS

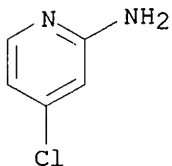
CN Pyridine, 4-chloro-3-methyl-, hydrochloride (9CI) (CA INDEX NAME)



○ HCl

RN 19798-80-2 CAPLUS

CN 2-Pyridinamine, 4-chloro- (9CI) (CA INDEX NAME)



RN 19961-27-4 CAPLUS

CN 2-Propanamine, N-ethyl- (9CI) (CA INDEX NAME)

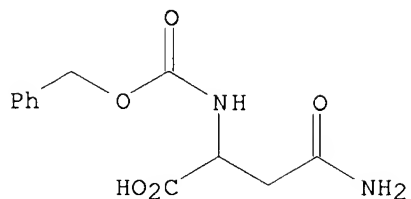
Et--NH--Pr-i

RN 29880-22-6 CAPLUS

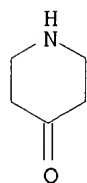
CN Asparagine, N2-[(phenylmethoxy)carbonyl]- (9CI) (CA INDEX NAME)



10/018,962

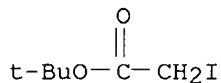


RN 41979-39-9 CAPLUS  
CN 4-Piperidinone, hydrochloride (9CI) (CA INDEX NAME)

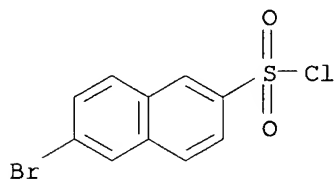


⊗ HCl

RN 49827-15-8 CAPLUS  
CN Acetic acid, iodo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



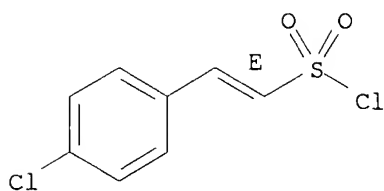
RN 50637-98-4 CAPLUS  
CN 2-Naphthalenesulfonyl chloride, 6-bromo- (9CI) (CA INDEX NAME)



RN 52147-98-5 CAPLUS  
CN Ethenesulfonyl chloride, 2-(4-chlorophenyl)-, (1E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

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RN 54303-30-9 CAPLUS

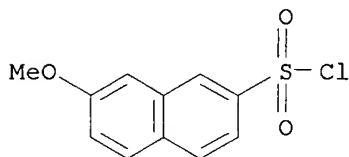
CN Ethanamine, 2-(ethylthio)-, hydrochloride (9CI) (CA INDEX NAME)

EtS-CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>

⊗ HCl

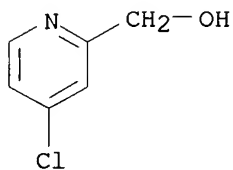
RN 56875-60-6 CAPLUS

CN 2-Naphthalenesulfonyl chloride, 7-methoxy- (9CI) (CA INDEX NAME)



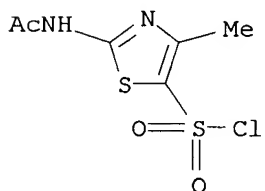
RN 63071-10-3 CAPLUS

CN 2-Pyridinemethanol, 4-chloro- (6CI, 9CI) (CA INDEX NAME)



RN 69812-29-9 CAPLUS

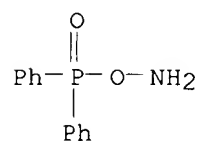
CN 5-Thiazolesulfonyl chloride, 2-(acetylamino)-4-methyl- (9CI) (CA INDEX NAME)



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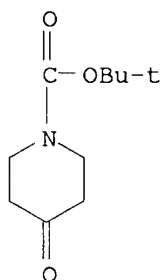
RN 72804-96-7 CAPLUS

CN Hydroxylamine, O-(diphenylphosphinyl)- (9CI) (CA INDEX NAME)



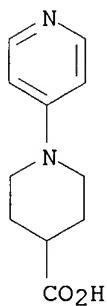
RN 79099-07-3 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 93913-86-1 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-(4-pyridinyl)- (9CI) (CA INDEX NAME)

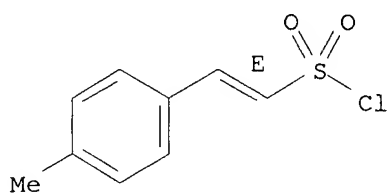


RN 98821-28-4 CAPLUS

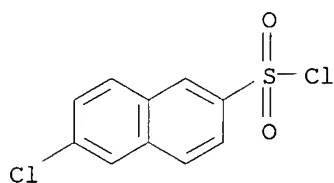
CN Ethenesulfonyl chloride, 2-(4-methylphenyl)-, (1E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

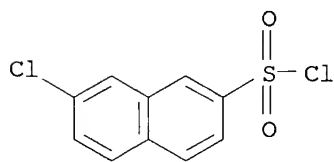
10/018,962



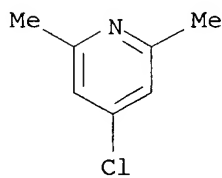
RN 102153-63-9 CAPLUS  
CN 2-Naphthalenesulfonyl chloride, 6-chloro- (6CI, 9CI) (CA INDEX NAME)



RN 102153-64-0 CAPLUS  
CN 2-Naphthalenesulfonyl chloride, 7-chloro- (6CI, 9CI) (CA INDEX NAME)



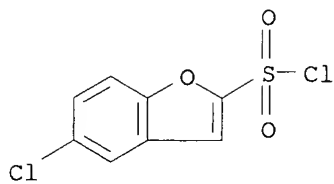
RN 117934-33-5 CAPLUS  
CN Pyridine, 4-chloro-2,6-dimethyl-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

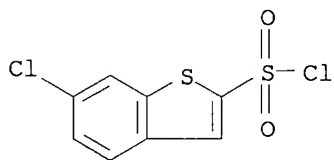
RN 128852-02-8 CAPLUS  
CN 2-Benzofuransulfonyl chloride, 5-chloro- (9CI) (CA INDEX NAME)

10/018,962



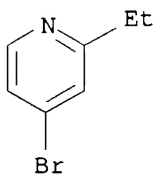
RN 128852-07-3 CAPLUS

CN Benzo[b]thiophene-2-sulfonyl chloride, 6-chloro- (9CI) (CA INDEX NAME)



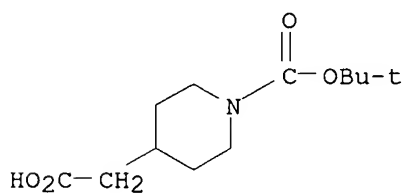
RN 156761-88-5 CAPLUS

CN Pyridine, 4-bromo-2-ethyl- (9CI) (CA INDEX NAME)



RN 157688-46-5 CAPLUS

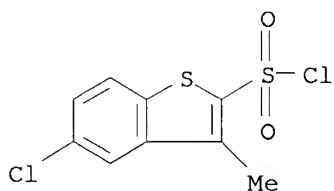
CN 4-Piperidineacetic acid, 1-[(1,1-dimethylethoxy)carbonyl]- (9CI) (CA INDEX NAME)



RN 166964-33-6 CAPLUS

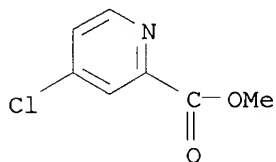
CN Benzo[b]thiophene-2-sulfonyl chloride, 5-chloro-3-methyl- (9CI) (CA INDEX NAME)

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RN 176977-85-8 CAPLUS

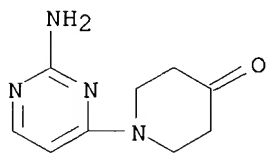
CN 2-Pyridinecarboxylic acid, 4-chloro-, methyl ester, hydrochloride (9CI)  
(CA INDEX NAME)



⊗ HCl

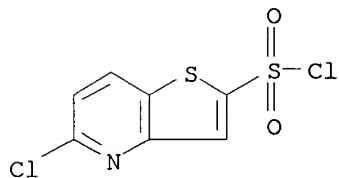
RN 198206-61-0 CAPLUS

CN 4-Piperidinone, 1-(2-amino-4-pyrimidinyl)- (9CI) (CA INDEX NAME)



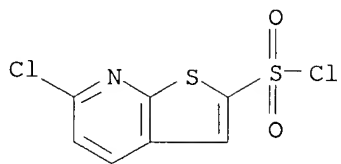
RN 205055-20-5 CAPLUS

CN Thieno[3,2-b]pyridine-2-sulfonyl chloride, 5-chloro- (9CI) (CA INDEX NAME)



RN 205055-23-8 CAPLUS

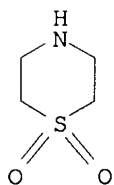
CN Thieno[2,3-b]pyridine-2-sulfonyl chloride, 6-chloro- (9CI) (CA INDEX NAME)



RN 220655-06-1 CAPLUS  
 CN Thiomorpholine, 1,1-dioxide, trifluoroacetate (9CI) (CA INDEX NAME)

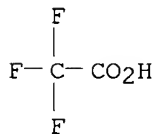
CM 1

CRN 39093-93-1  
 CMF C4 H9 N O2 S

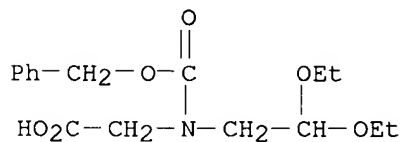


CM 2

CRN 76-05-1  
 CMF C2 H F3 O2

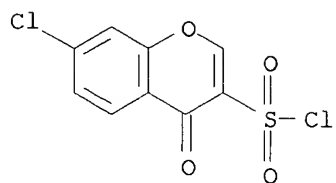


RN 239074-33-0 CAPLUS  
 CN Glycine, N-(2,2-diethoxyethyl)-N-[(phenylmethoxy)carbonyl]- (9CI) (CA INDEX NAME)



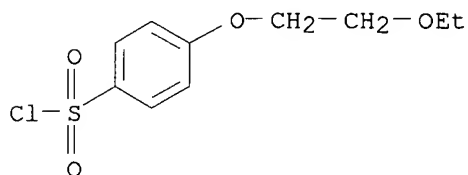
RN 239074-34-1 CAPLUS  
 CN 4H-1-Benzopyran-3-sulfonyl chloride, 7-chloro-4-oxo- (9CI) (CA INDEX NAME)

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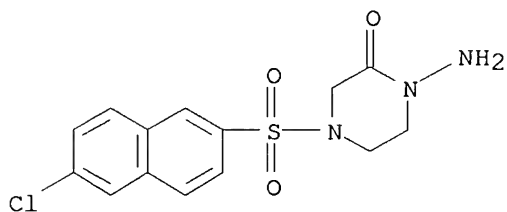
RN 264624-20-6 CAPLUS

CN Benzenesulfonyl chloride, 4-(2-ethoxyethoxy)- (9CI) (CA INDEX NAME)



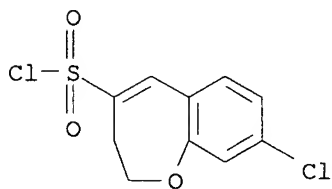
RN 315494-83-8 CAPLUS

CN Piperazinone, 1-amino-4-[(6-chloro-2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 315494-94-1 CAPLUS

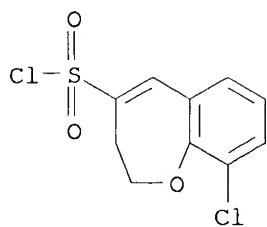
CN 1-Benzoxepin-4-sulfonyl chloride, 8-chloro-2,3-dihydro- (9CI) (CA INDEX NAME)



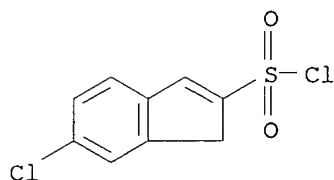
RN 315495-02-4 CAPLUS

CN 1-Benzoxepin-4-sulfonyl chloride, 9-chloro-2,3-dihydro- (9CI) (CA INDEX NAME)



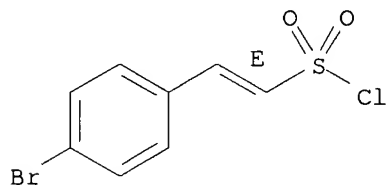


RN 315495-15-9 CAPLUS  
CN 1H-Indene-2-sulfonyl chloride, 6-chloro- (9CI) (CA INDEX NAME)



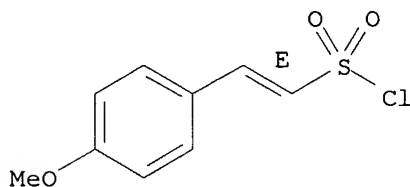
RN 315495-26-2 CAPLUS  
CN Ethenesulfonyl chloride, 2-(4-bromophenyl)-, (1E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



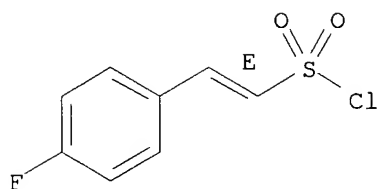
RN 315495-30-8 CAPLUS  
CN Ethenesulfonyl chloride, 2-(4-methoxyphenyl)-, (1E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

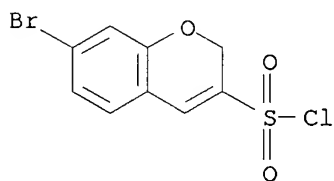


RN 315495-38-6 CAPLUS  
CN Ethenesulfonyl chloride, 2-(4-fluorophenyl)-, (1E)- (9CI) (CA INDEX NAME)

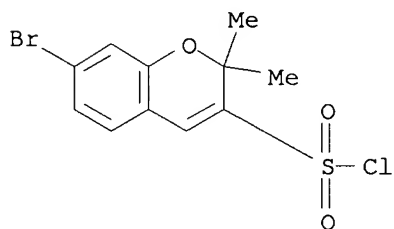
Double bond geometry as shown.



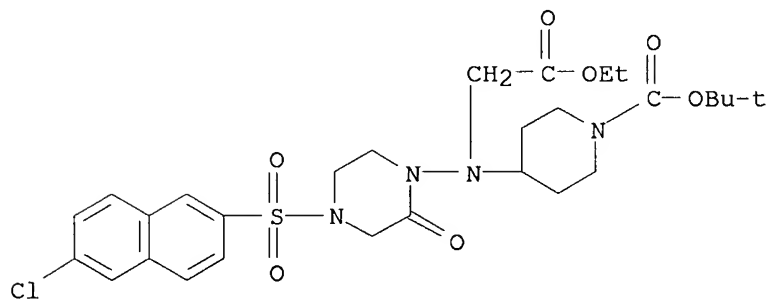
RN 315495-45-5 CAPLUS  
CN 2H-1-Benzopyran-3-sulfonyl chloride, 7-bromo- (9CI) (CA INDEX NAME)



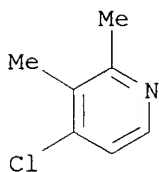
RN 315495-96-6 CAPLUS  
CN 2H-1-Benzopyran-3-sulfonyl chloride, 7-bromo-2,2-dimethyl- (9CI) (CA INDEX NAME)



RN 315496-06-1 CAPLUS  
CN 1-Piperidinecarboxylic acid, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl](2-ethoxy-2-oxoethyl)amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

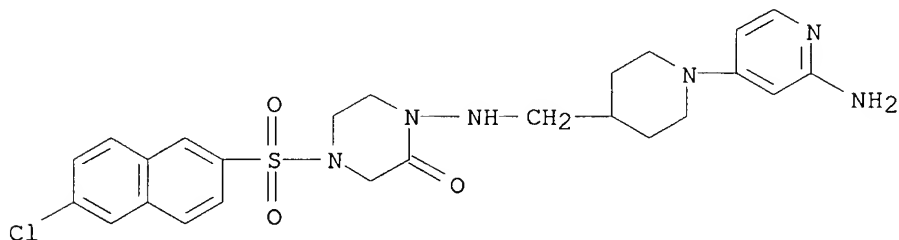


RN 315496-27-6 CAPLUS  
CN Pyridine, 4-chloro-2,3-dimethyl- (9CI) (CA INDEX NAME)



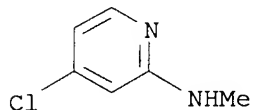
RN 315496-34-5 CAPLUS

CN Piperazinone, 1-[[[1-(2-amino-4-pyridinyl)-4-piperidinyl]methyl]amino]-4-[(6-chloro-2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 315496-38-9 CAPLUS

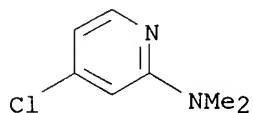
CN 2-Pyridinamine, 4-chloro-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



○ HCl

RN 315496-41-4 CAPLUS

CN 2-Pyridinamine, 4-chloro-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



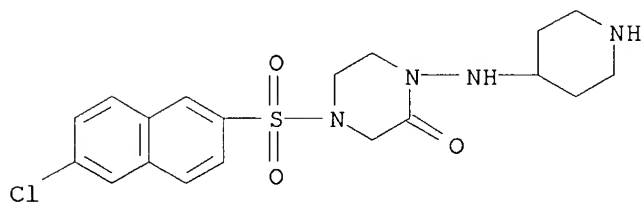
⊙ HCl

RN 315496-69-6 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-(4-piperidinylamino)-

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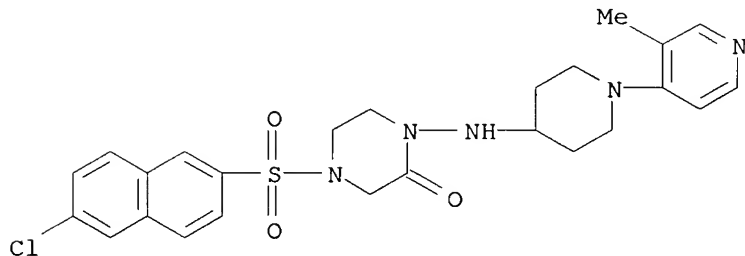
, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

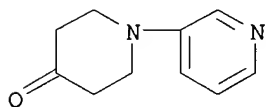
RN 315496-73-2 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(3-methyl-4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



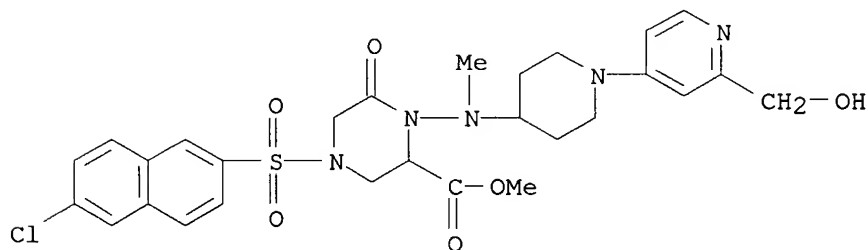
RN 315496-80-1 CAPLUS

CN 4-Piperidinone, 1-(3-pyridinyl)- (9CI) (CA INDEX NAME)



RN 315497-15-5 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-[2-(hydroxymethyl)-4-pyridinyl]-4-piperidinyl]methylamino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)

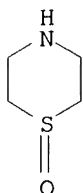


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RN 315497-19-9 CAPLUS  
CN Thiomorpholine, 1-oxide, trifluoroacetate (9CI) (CA INDEX NAME)

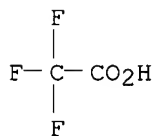
CM 1

CRN 39213-13-3  
CMF C4 H9 N O S

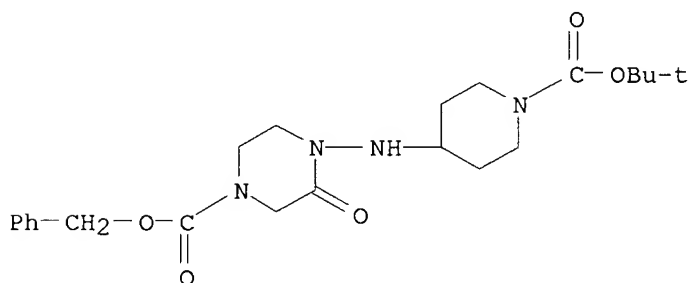


CM 2

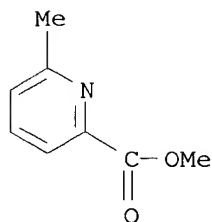
CRN 76-05-1  
CMF C2 H F3 O2



RN 315497-92-8 CAPLUS  
CN 1-Piperazinecarboxylic acid, 4-[[1-[(1,1-dimethylethoxy)carbonyl]-4-piperidinyl]amino]-3-oxo-, phenylmethyl ester (9CI) (CA INDEX NAME)

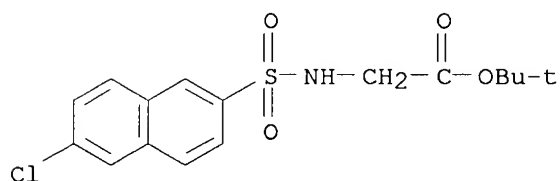


RN 315498-76-1 CAPLUS  
CN 2-Pyridinecarboxylic acid, 6-methyl-, methyl ester, hydrochloride (9CI)  
(CA INDEX NAME)



O HCl

RN 315498-85-2 CAPLUS

CN Glycine, N-[(6-chloro-2-naphthalenyl)sulfonyl]-, 1,1-dimethylethyl ester  
(9CI) (CA INDEX NAME)

IT 40472-76-2P 41337-77-3P 76003-29-7P  
 78818-15-2P, 4-Benzylloxycarbonyl-2-piperazinone  
 87905-97-3P 96628-83-0P 98280-32-1P  
 119396-04-2P 126832-81-3P, 1-(4-Pyridyl)-4-piperidone  
 166954-75-2P 180748-30-5P 239073-00-8P  
 315492-64-9P 315492-68-3P 315492-72-9P  
 315492-77-4P 315492-81-0P 315492-85-4P  
 315492-89-8P 315492-93-4P 315492-97-8P  
 315493-01-7P 315493-05-1P 315493-09-5P  
 315493-13-1P 315493-18-6P 315493-22-2P  
 315493-26-6P 315493-31-3P 315493-35-7P  
 315493-39-1P 315493-43-7P 315493-47-1P  
 315493-51-7P 315493-60-8P 315493-64-2P  
 315493-68-6P 315493-76-6P 315493-80-2P  
 315493-84-6P 315494-03-2P 315494-10-1P  
 315494-14-5P 315494-18-9P 315494-22-5P  
 315494-26-9P 315494-30-5P 315494-34-9P  
 315494-38-3P 315494-42-9P 315494-49-6P  
 315494-53-2P 315494-57-6P 315494-61-2P  
 315495-55-7P 315495-81-9P 315497-35-9P  
 315497-43-9P 315497-59-7P 315497-63-3P  
 315497-67-7P 315497-71-3P 315497-89-3P  
 315498-08-9P 315498-15-8P 315498-26-1P  
 315498-37-4P 315498-41-0P 315498-45-4P  
 315498-50-1P 315498-58-9P 315498-62-5P  
 315498-67-0P 315498-72-7P 315498-93-2P  
 315498-97-6P 315499-01-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)

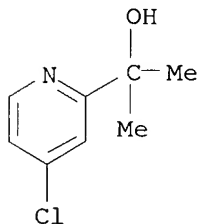
(prepn. and effect of acylhydrazine derivs. as activated blood

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coagulation factor X inhibitors)

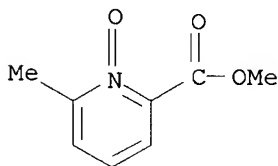
RN 40472-76-2 CAPLUS

CN 2-Pyridinemethanol, 4-chloro-.alpha.,.alpha.-dimethyl- (9CI) (CA INDEX NAME)



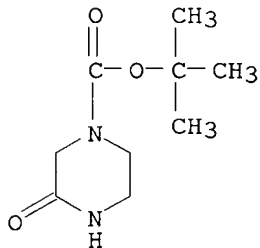
RN 41337-77-3 CAPLUS

CN 2-Pyridinecarboxylic acid, 6-methyl-, methyl ester, 1-oxide (9CI) (CA INDEX NAME)



RN 76003-29-7 CAPLUS

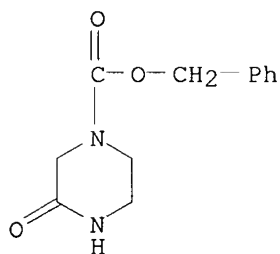
CN 1-Piperazinecarboxylic acid, 3-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 78818-15-2 CAPLUS

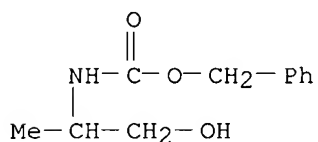
CN 1-Piperazinecarboxylic acid, 3-oxo-, phenylmethyl ester (9CI) (CA INDEX NAME)

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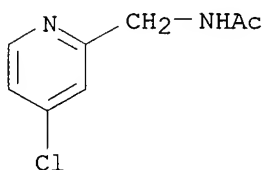
RN 87905-97-3 CAPLUS

CN Carbamic acid, (2-hydroxy-1-methylethyl)-, phenylmethyl ester (9CI) (CA INDEX NAME)



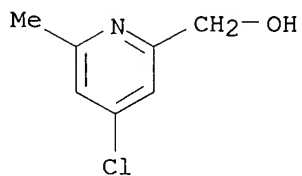
RN 96628-83-0 CAPLUS

CN Acetamide, N-[(4-chloro-2-pyridinyl)methyl]- (9CI) (CA INDEX NAME)



RN 98280-32-1 CAPLUS

CN 2-Pyridinemethanol, 4-chloro-6-methyl- (6CI, 9CI) (CA INDEX NAME)

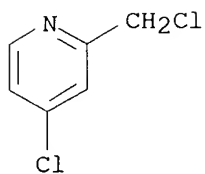


RN 119396-04-2 CAPLUS

CN Pyridine, 4-chloro-2-(chloromethyl)-, hydrochloride (9CI) (CA INDEX NAME)



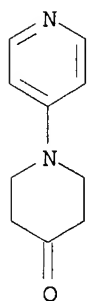
10/018,962



⊕ HCl

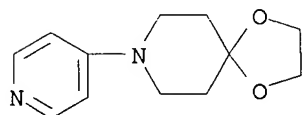
RN 126832-81-3 CAPLUS

CN 4-Piperidinone, 1-(4-pyridinyl)- (9CI) (CA INDEX NAME)



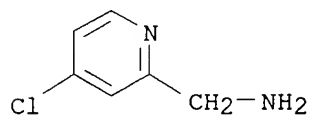
RN 166954-75-2 CAPLUS

CN 1,4-Dioxo-8-azaspiro[4.5]decane, 8-(4-pyridinyl)- (9CI) (CA INDEX NAME)



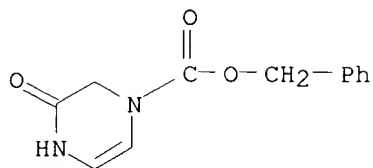
RN 180748-30-5 CAPLUS

CN 2-Pyridinemethanamine, 4-chloro- (9CI) (CA INDEX NAME)



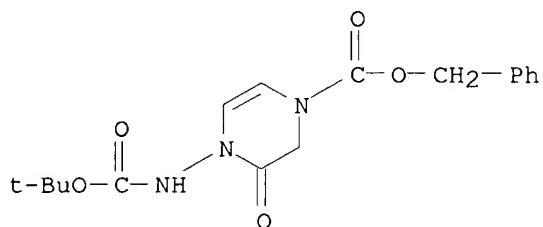
RN 239073-00-8 CAPLUS

CN 1(2H)-Pyrazinecarboxylic acid, 3,4-dihydro-3-oxo-, phenylmethyl ester (9CI) (CA INDEX NAME)



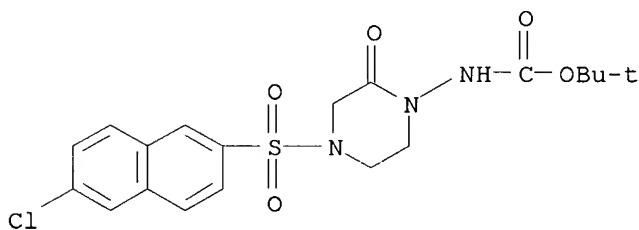
RN 315492-64-9 CAPLUS

CN 1(2H)-Pyrazinecarboxylic acid, 4-[[1,1-dimethylethoxy]carbonyl]amino]-3,4-dihydro-3-oxo-, phenylmethyl ester (9CI) (CA INDEX NAME)



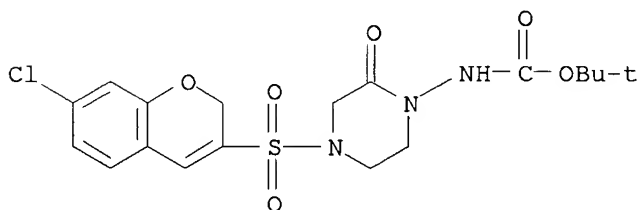
RN 315492-68-3 CAPLUS

CN Carbamic acid, [4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



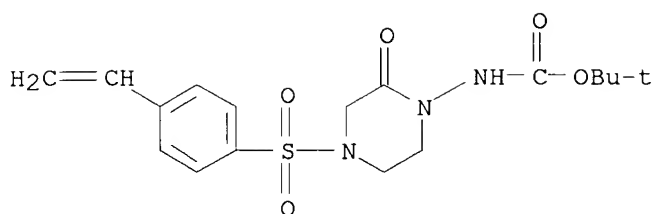
RN 315492-72-9 CAPLUS

CN Carbamic acid, [4-[(7-chloro-2H-1-benzopyran-3-yl)sulfonyl]-2-oxo-1-piperazinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



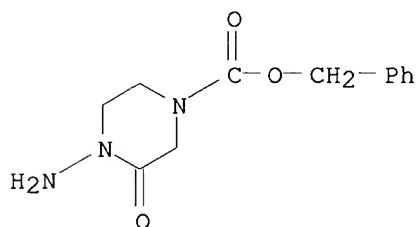
RN 315492-77-4 CAPLUS

CN Carbamic acid, [4-[(4-ethenylphenyl)sulfonyl]-2-oxo-1-piperazinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



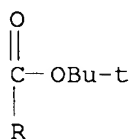
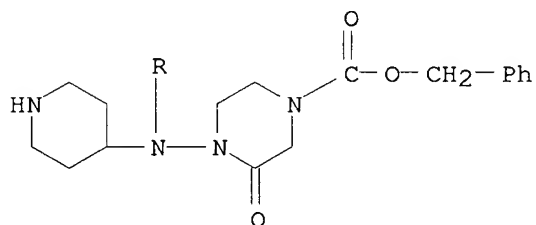
RN 315492-81-0 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-amino-3-oxo-, phenylmethyl ester (9CI) (CA INDEX NAME)



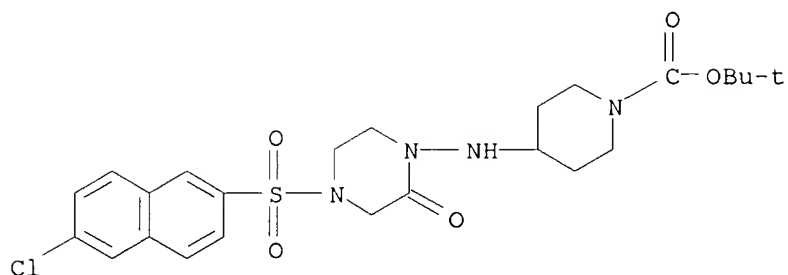
RN 315492-85-4 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[[(1,1-dimethylethoxy)carbonyl]-4-piperidinylamino]-3-oxo-, phenylmethyl ester (9CI) (CA INDEX NAME)

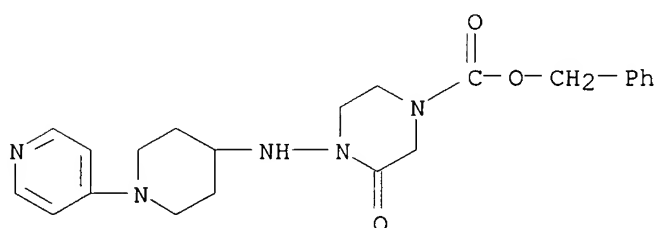


RN 315492-89-8 CAPLUS

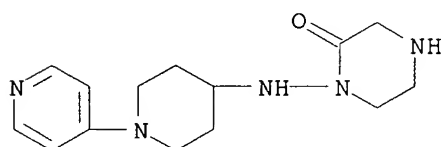
CN 1-Piperidinecarboxylic acid, 4-[[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 315492-93-4 CAPLUS  
 CN 1-Piperazinecarboxylic acid, 3-oxo-4-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, phenylmethyl ester (9CI) (CA INDEX NAME)



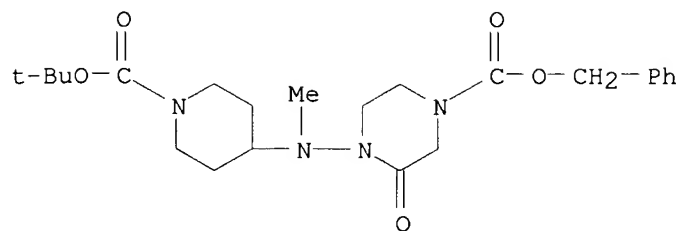
RN 315492-97-8 CAPLUS  
 CN Piperazinone, 1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, trihydrochloride (9CI) (CA INDEX NAME)



O3 HCl

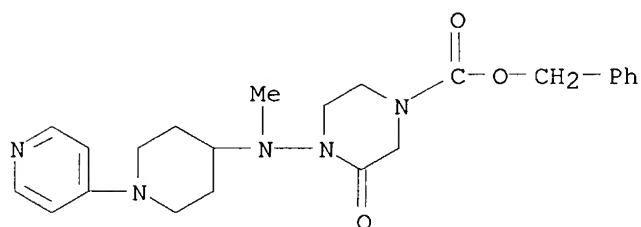
RN 315493-01-7 CAPLUS  
 CN 1-Piperazinecarboxylic acid, 4-[[1-[(1,1-dimethylethoxy)carbonyl]-4-piperidinyl]methylamino]-3-oxo-, phenylmethyl ester (9CI) (CA INDEX NAME)

10/018,962



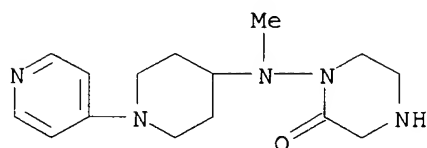
RN 315493-05-1 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-3-oxo-, phenylmethyl ester (9CI) (CA INDEX NAME)



RN 315493-09-5 CAPLUS

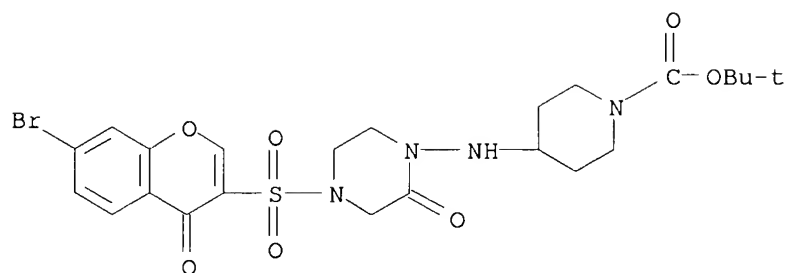
CN Piperazinone, 1-[methyl[1-(4-pyridinyl)-4-piperidinyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)



O2 HCl

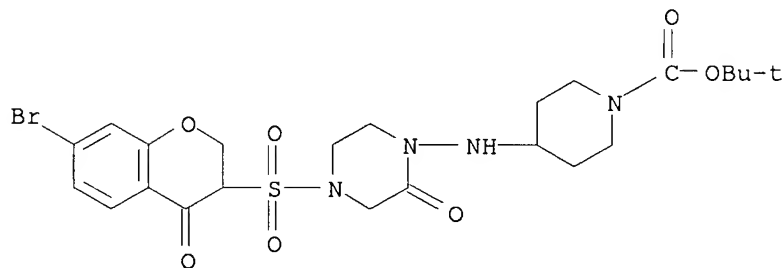
RN 315493-13-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[(7-bromo-4-oxo-4H-1-benzopyran-3-yl)sulfonyl]-2-oxo-1-piperazinyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



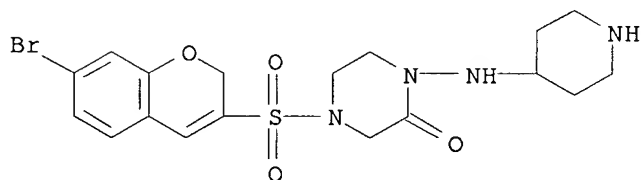
RN 315493-18-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[(7-bromo-3,4-dihydro-4-oxo-2H-1-benzopyran-3-yl)sulfonyl]-2-oxo-1-piperazinyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



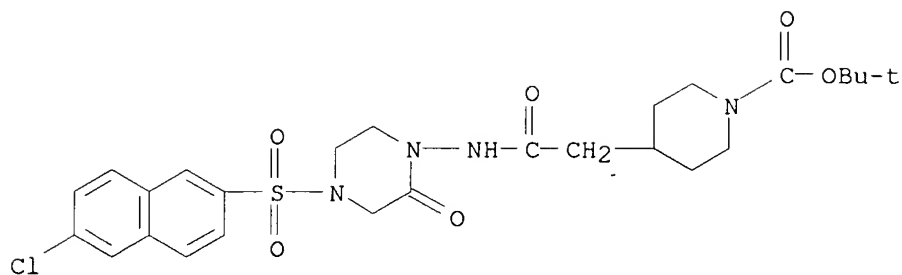
RN 315493-22-2 CAPLUS

CN Piperazinone, 4-[(7-bromo-2H-1-benzopyran-3-yl)sulfonyl]-1-(4-piperidinylamino)- (9CI) (CA INDEX NAME)



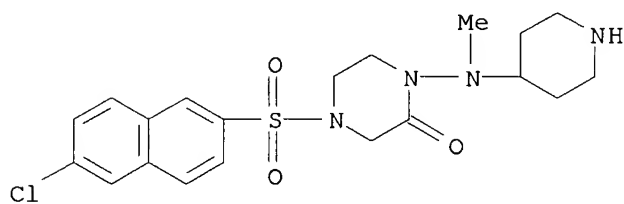
RN 315493-26-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[2-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]amino]-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



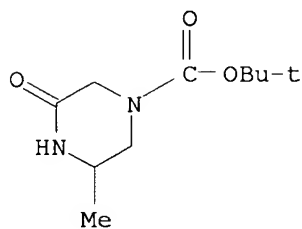
RN 315493-31-3 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-(methyl-4-piperidinylamino)- (9CI) (CA INDEX NAME)



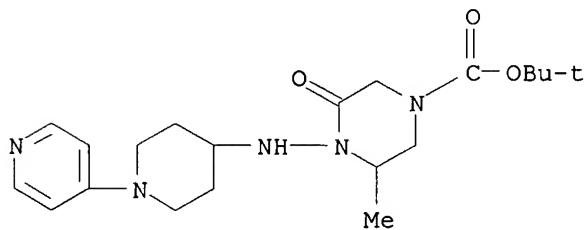
RN 315493-35-7 CAPLUS

CN 1-Piperazinecarboxylic acid, 3-methyl-5-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 315493-39-1 CAPLUS

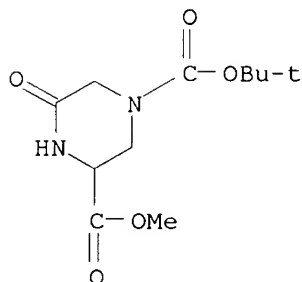
CN 1-Piperazinecarboxylic acid, 3-methyl-5-oxo-4-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 315493-43-7 CAPLUS

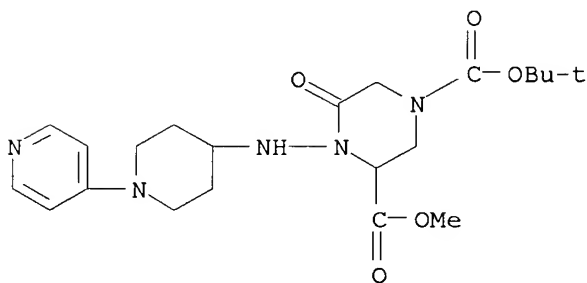
10/018,962

CN 1,3-Piperazinedicarboxylic acid, 5-oxo-, 1-(1,1-dimethylethyl) 3-methyl ester (9CI) (CA INDEX NAME)



RN 315493-47-1 CAPLUS

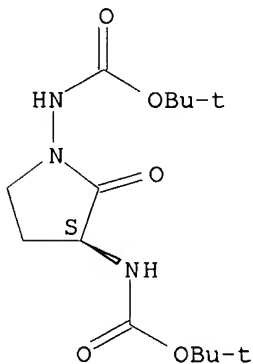
CN 1,3-Piperazinedicarboxylic acid, 5-oxo-4-[[1-(4-pyridinyl)-4-piperidinyl]amino]-, 1-(1,1-dimethylethyl) 3-methyl ester (9CI) (CA INDEX NAME)



RN 315493-51-7 CAPLUS

CN Carbamic acid, [(3S)-2-oxo-1,3-pyrrolidinediyl]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



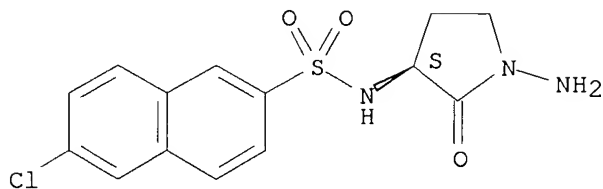
RN 315493-60-8 CAPLUS

CN 2-Naphthalenesulfonamide, N-[(3S)-1-amino-2-oxo-3-pyrrolidinyll]-6-chloro- (9CI) (CA INDEX NAME)



10/018,962

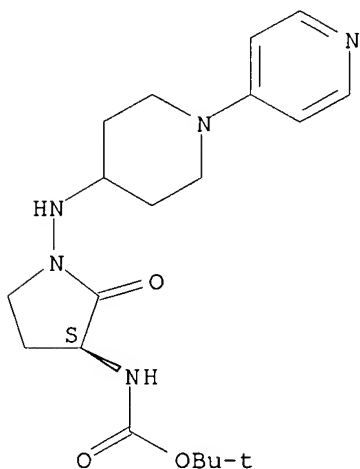
Absolute stereochemistry.



RN 315493-64-2 CAPLUS

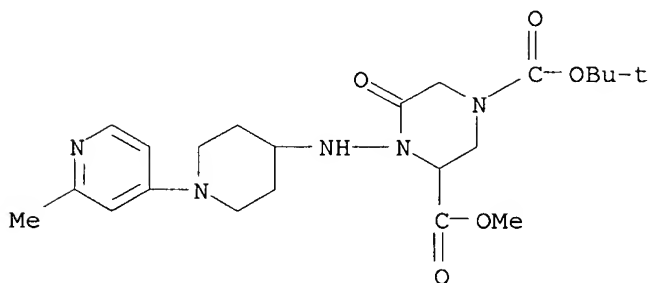
CN Carbamic acid, [(3S)-2-oxo-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



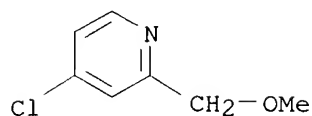
RN 315493-68-6 CAPLUS

CN 1,3-Piperazinedicarboxylic acid, 4-[[1-(2-methyl-4-pyridinyl)-4-piperidinyl]amino]-5-oxo-, 1-(1,1-dimethylethyl) 3-methyl ester (9CI) (CA INDEX NAME)

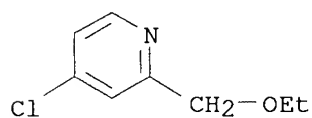


RN 315493-76-6 CAPLUS

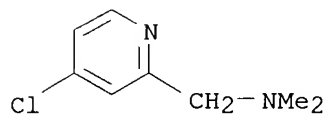
CN Pyridine, 4-chloro-2-(methoxymethyl)- (9CI) (CA INDEX NAME)



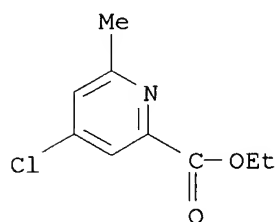
RN 315493-80-2 CAPLUS  
CN Pyridine, 4-chloro-2-(ethoxymethyl)- (9CI) (CA INDEX NAME)



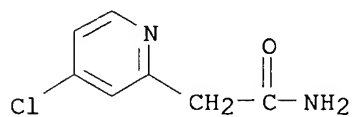
RN 315493-84-6 CAPLUS  
CN 2-Pyridinemethanamine, 4-chloro-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 315494-03-2 CAPLUS  
CN 2-Pyridinecarboxylic acid, 4-chloro-6-methyl-, ethyl ester (9CI) (CA INDEX NAME)

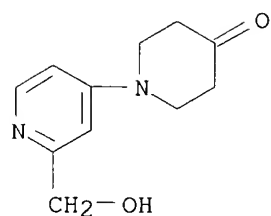


RN 315494-10-1 CAPLUS  
CN 2-Pyridineacetamide, 4-chloro- (9CI) (CA INDEX NAME)



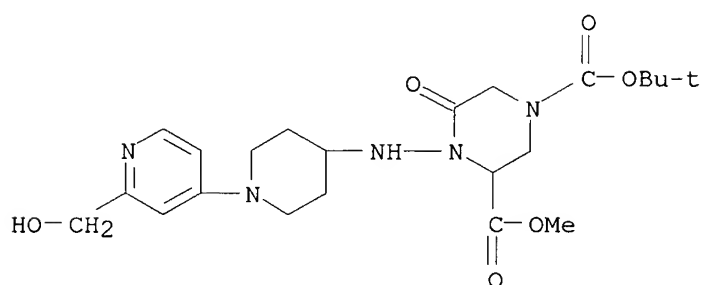
RN 315494-14-5 CAPLUS  
CN 4-Piperidinone, 1-[2-(hydroxymethyl)-4-pyridinyl]- (9CI) (CA INDEX NAME)

10/018,962



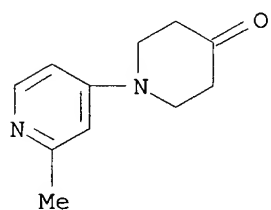
RN 315494-18-9 CAPLUS

CN 1,3-Piperazinedicarboxylic acid, 4-[[1-[2-(hydroxymethyl)-4-pyridinyl]-4-piperidinyl]amino]-5-oxo-, 1-(1,1-dimethylethyl) 3-methyl ester (9CI) (CA INDEX NAME)



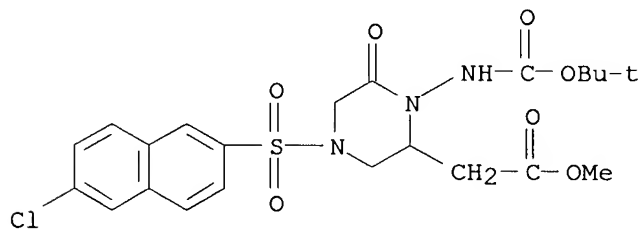
RN 315494-22-5 CAPLUS

CN 4-Piperidinone, 1-(2-methyl-4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 315494-26-9 CAPLUS

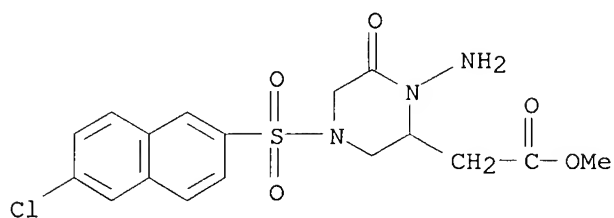
CN 2-Piperazineacetic acid, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-[[1-(1,1-dimethylethoxy)carbonyl]amino]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



RN 315494-30-5 CAPLUS

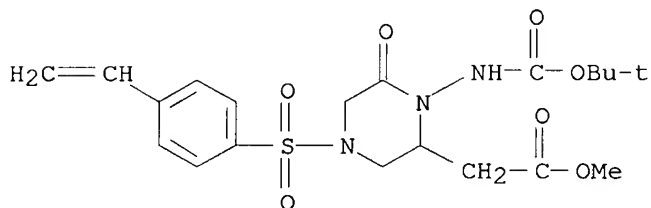
10/018,962

CN 2-Piperazineacetic acid, 1-amino-4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



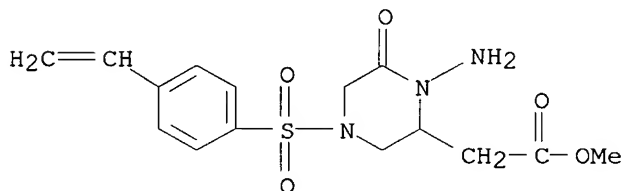
RN 315494-34-9 CAPLUS

CN 2-Piperazineacetic acid, 1-[[[(1,1-dimethylethoxy)carbonyl]amino]-4-[(4-ethenylphenyl)sulfonyl]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



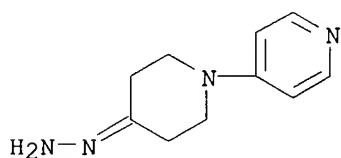
RN 315494-38-3 CAPLUS

CN 2-Piperazineacetic acid, 1-amino-4-[(4-ethenylphenyl)sulfonyl]-6-oxo-, methyl ester (9CI) (CA INDEX NAME)



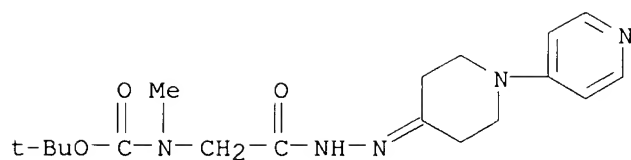
RN 315494-42-9 CAPLUS

CN 4-Piperidinone, 1-(4-pyridinyl)-, hydrazone (9CI) (CA INDEX NAME)



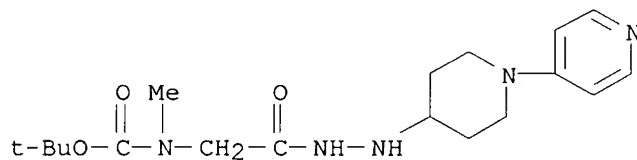
RN 315494-49-6 CAPLUS

CN Glycine, N-[(1,1-dimethylethoxy)carbonyl]-N-methyl-, [1-(4-pyridinyl)-4-piperidinylidene]hydrazide (9CI) (CA INDEX NAME)



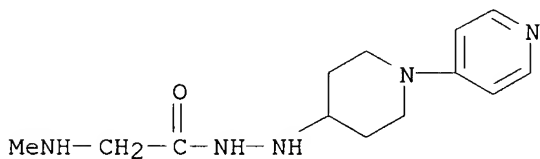
RN 315494-53-2 CAPLUS

CN Glycine, N-[(1,1-dimethylethoxy)carbonyl]-N-methyl-, 2-[1-(4-pyridinyl)-4-piperidinyl]hydrazide (9CI) (CA INDEX NAME)



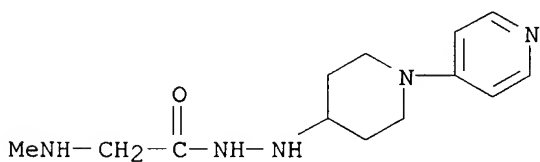
RN 315494-57-6 CAPLUS

CN Glycine, N-methyl-, 2-[1-(4-pyridinyl)-4-piperidinyl]hydrazide (9CI) (CA INDEX NAME)



RN 315494-61-2 CAPLUS

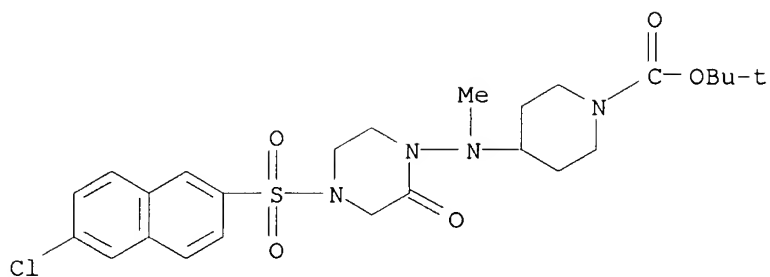
CN Glycine, N-methyl-, 2-[1-(4-pyridinyl)-4-piperidinyl]hydrazide, trihydrochloride (9CI) (CA INDEX NAME)



O3 HCl

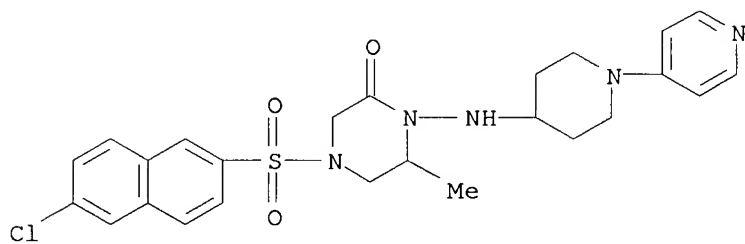
RN 315495-55-7 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]methylamino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



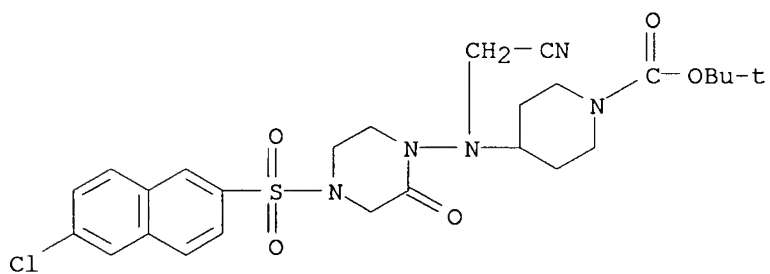
RN 315495-81-9 CAPLUS

CN Piperazinone, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-6-methyl-1-[[1-(4-pyridinyl)-4-piperidinyl]amino]- (9CI) (CA INDEX NAME)



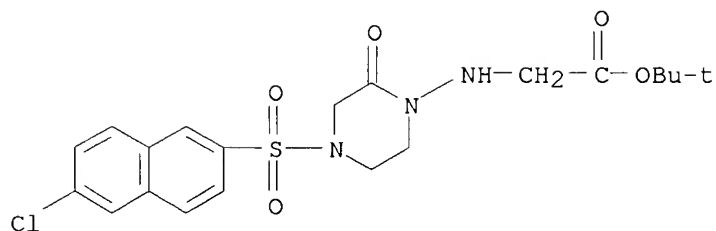
RN 315497-35-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl](cyanomethyl)amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



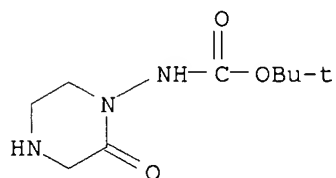
RN 315497-43-9 CAPLUS

CN Glycine, N-[4-[(6-chloro-2-naphthalenyl)sulfonyl]-2-oxo-1-piperazinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



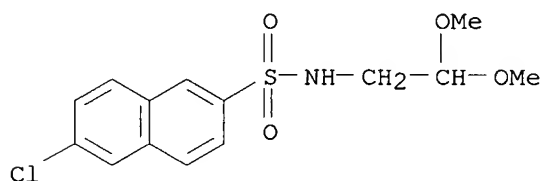
RN 315497-59-7 CAPLUS

CN Carbamic acid, (2-oxo-1-piperazinyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



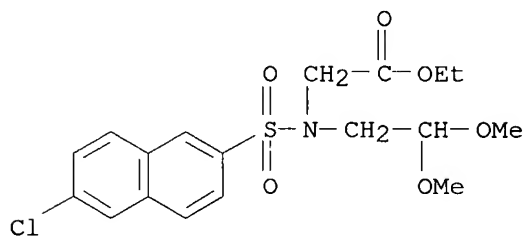
RN 315497-63-3 CAPLUS

CN 2-Naphthalenesulfonamide, 6-chloro-N-(2,2-dimethoxyethyl)- (9CI) (CA INDEX NAME)



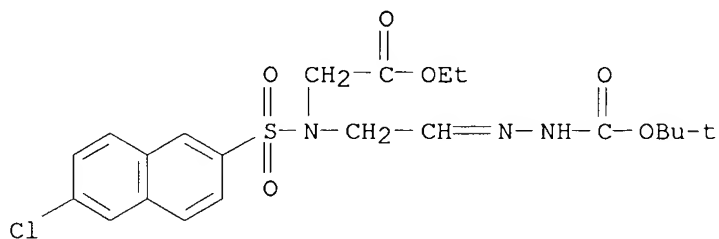
RN 315497-67-7 CAPLUS

CN Glycine, N-[(6-chloro-2-naphthalenyl)sulfonyl]-N-(2,2-dimethoxyethyl)-, ethyl ester (9CI) (CA INDEX NAME)



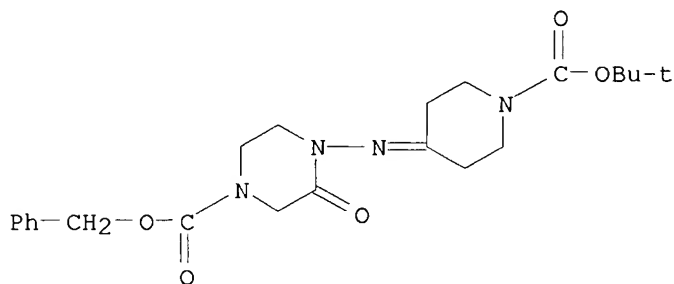
RN 315497-71-3 CAPLUS

CN Hydrazinecarboxylic acid, [2-[[[(6-chloro-2-naphthalenyl)sulfonyl](2-ethoxy-2-oxoethyl)amino]ethylidene]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



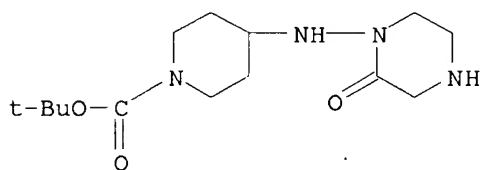
RN 315497-89-3 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[1-[(1,1-dimethylethoxy)carbonyl]-4-piperidinyldene]amino]-3-oxo-, phenylmethyl ester (9CI) (CA INDEX NAME)



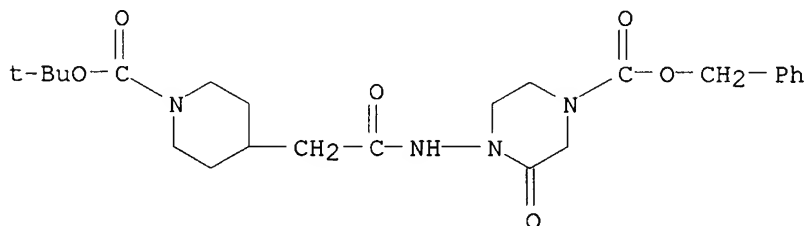
RN 315498-08-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[(2-oxo-1-piperazinyl)amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 315498-15-8 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[[1-[(1,1-dimethylethoxy)carbonyl]-4-piperidinyldene]acetyl]amino]-3-oxo-, phenylmethyl ester (9CI) (CA INDEX NAME)

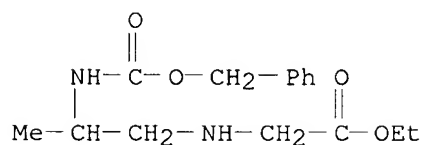


RN 315498-26-1 CAPLUS

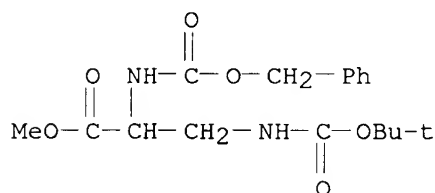
CN Glycine, N-[2-[(phenylmethoxy)carbonyl]amino]propyl]-, ethyl ester (9CI)



(CA INDEX NAME)



RN 315498-37-4 CAPLUS

CN Alanine, 3-[[ (1,1-dimethylethoxy)carbonyl]amino]-N-  
[(phenylmethoxy)carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

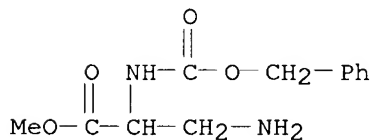
RN 315498-41-0 CAPLUS

CN Alanine, 3-amino-N-[(phenylmethoxy)carbonyl]-, methyl ester,  
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 185564-12-9

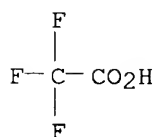
CMF C12 H16 N2 O4



CM 2

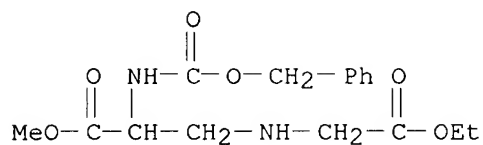
CRN 76-05-1

CMF C2 H F3 O2



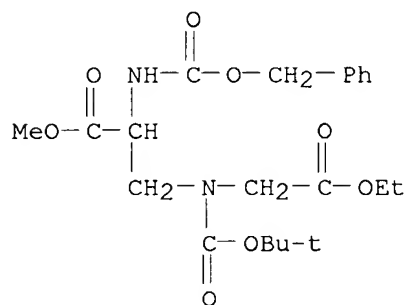
RN 315498-45-4 CAPLUS

CN Alanine, 3-[(2-ethoxy-2-oxoethyl)amino]-N-[(phenylmethoxy)carbonyl]-,  
methyl ester (9CI) (CA INDEX NAME)



RN 315498-50-1 CAPLUS

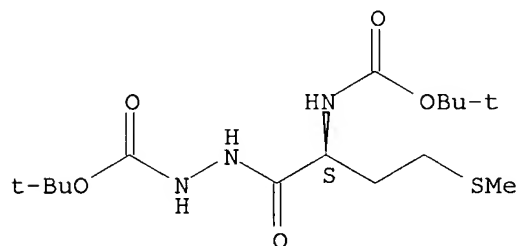
CN Alanine, 3-[[[(1,1-dimethylethoxy)carbonyl](2-ethoxy-2-oxoethyl)amino]-N-[(phenylmethoxy)carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 315498-58-9 CAPLUS

CN Hydrazinecarboxylic acid, 2-[(2S)-2-[[[(1,1-dimethylethoxy)carbonyl]amino]-4-(methylthio)-1-oxobutyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

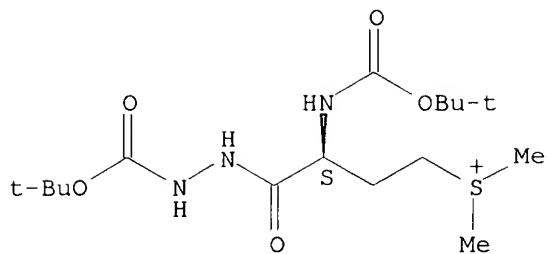
Absolute stereochemistry.



RN 315498-62-5 CAPLUS

CN Sulfonium, [(3S)-3-[[[(1,1-dimethylethoxy)carbonyl]amino]-4-[2-[(1,1-dimethylethoxy)carbonyl]hydrazino]-4-oxobutyl]dimethyl-, iodide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

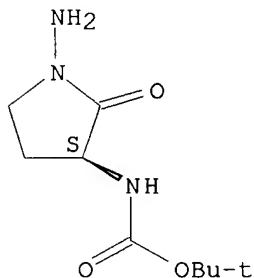


⊙ I<sup>-</sup>

RN 315498-67-0 CAPLUS

CN Carbamic acid, [(3S)-1-amino-2-oxo-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

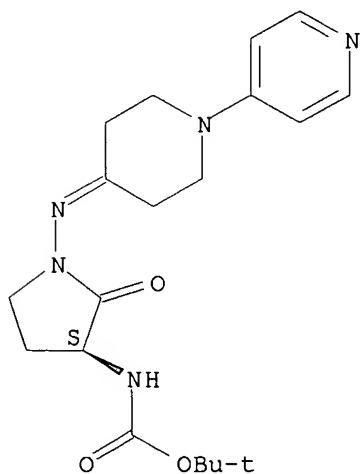
Absolute stereochemistry.



RN 315498-72-7 CAPLUS

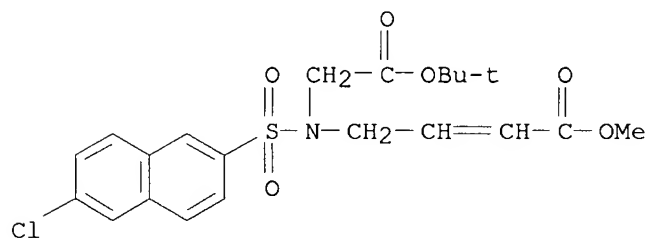
CN Carbamic acid, [(3S)-2-oxo-1-[[1-(4-pyridinyl)-4-piperidinylidene]amino]-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



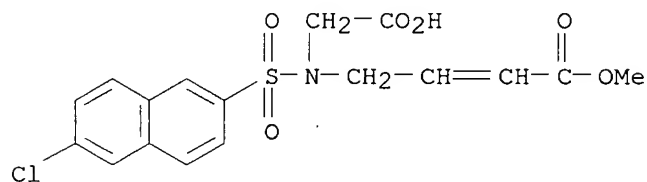
RN 315498-93-2 CAPLUS

CN 2-Butenoic acid, 4-[[ (6-chloro-2-naphthalenyl)sulfonyl][2-(1,1-dimethylethoxy)-2-oxoethyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



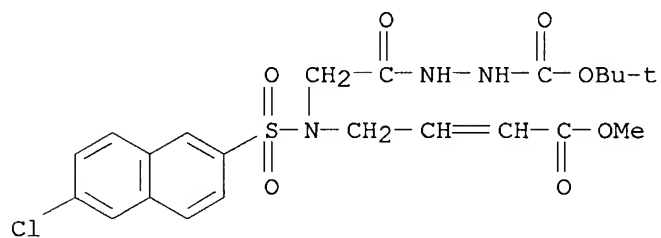
RN 315498-97-6 CAPLUS

CN 2-Butenoic acid, 4-[(carboxymethyl)[ (6-chloro-2-naphthalenyl)sulfonyl]amino]-, 1-methyl ester (9CI) (CA INDEX NAME)

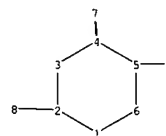
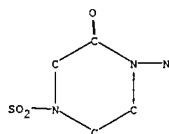


RN 315499-01-5 CAPLUS

CN Hydrazinecarboxylic acid, 2-[[[ (6-chloro-2-naphthalenyl)sulfonyl] (4-methoxy-4-oxo-2-butenyl)amino]acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



*piperozinones only*



chain nodes :

7 8 9

ring nodes :

1 2 3 4 5 6

chain bonds :

2-8 4-7 5-9

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-2 1-6 2-3 2-8 3-4 4-5 4-7 5-6 5-9

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS